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FIGURE 1532

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLRGVSIIGTIIGAGIFISPKGVLQNTGS
VGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGLPAFVRVWVELLIIRPAATAVISLAFGRYI
LEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWASARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAF
SGRDSSITRLPLAFYYGMYAYAGWFYLNFTVEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILSMIHVRKHTPLPAVIVLHPL
TMIMLFSGDLDSSLNFLSFARWLFIGLAVAGLIYLRKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFST
GIGFVITLTGVPAYYLFIIWDKKPRWFRIMSGFLALMPAQACDM

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FIGURE 1533

CTCGAGGCCACGAAGGCCCCCGGGGTCAGCAGAGGGGCGCTCACGCTCTCGCCACCCACCTCGCTTTCTCACCCC
GCGCTTCCCGGCTGGGTTTTTAGTCTTTCCTTGGAGCGCTCTCTGGCCTCCGCTCCGCCAGGGAGCGGAAGGCG
GAGACAGCGAGACTGGCCAGGGGGGAGGAAAGAGGACGCGTGTGGGCAAGGGGGACAACGGGATGTCCACGGGCT
CGGTGAGTGATCCGGAGGAGATGGAGCTTCGGGGGCTGCAGCGGGAGTACCCGGTCCCCGCTCCAAGAGGCCGC
CCCTCCGCGGCGTAGAGCGCAGCTACGCCTCGCCAGTGACAACTCGTCGGCAGAGGAGGAGGACCCCGACGGCG
AGGAGGAGCGCTGCGCTCTGGGCACAGCCGGCAGCGCGGAAGGCTGCAAGAGGAAGCGGCCCCGTGTGGCTGGGG
GCGGCGGCGCAGGTGGTAGCGCGGGCGGTGGTGGAAGAAGCCCCCTCCCGGCAAGGGCTCAGCCGCAGAGTGCA
AGCAGTCGCAGCGGAACGCGGCCAACGCCCCGTGAGCGTGCCCGGATGCGCGTGCTGAGCAAAGCCTTCTCCAGGC
TCAAGACCAGCTGCCCTGGGTGCCCCCGACACTAAGCTCTCCAAGCTGGACACGCTCCGGCTGGCTTCCAGTT
ACATCGCTCACCTGCGGCAGCTGTTGCAGGAGGACCGCTATGAGAACGGCTACGTGCACCCAGTGAACCTGACAT
GGCCATTCTGTGGTCTCGGGAAGACCGGCCTCTGCACCAAAGAAGTTTCCGCAGCCAACAGACTATGTGGAACCAC
CGCTTAAATCGGACTGGAACCTCACTTGATGGGATTATTCGTTAAATGCGAGTGTTTGGGGGCCACGGAGAGAAGG
GAGAGCTCGTGAGATGGGAAGAAGTTTCCGCTGGATTCTCCTTGACCCTTCCCCTTGCCCTGGAACCTGTGATCGT
GACAGGTGGCGGGTGTGGCTGTCACTGCACAGCGCCACGGCTACAGCTGCGCCGGATCTGGGCGACCACGTTTT
GCCTCTCCAAAAAGAGCTTCCTTTCGTGACGAGACGCGGACGCGAGGTCCACCCTCGGGCCCTAGCTCTGTAGACT
AACTCTCGGCTGCTGCCCCAGCCCGCGCCAGACAGCCACGGATCCGTTCTCAGCGGAGCCAGATTTCATCGCACA
CGTGCGGGACGGTTCCACACAGCCCCGGCCTTTTCGCGGTGACACAATGGTTAGGGAACGGTTAGACGCGCTCTAC
ATCCGCTTTAAAGACAGAGGTCTAGACGTGAGATCCGCGTCGGGACAGGGTTTTTAAGTGACAAAGAAGGGCGAGT
GGCTTCTCTGGGCCGGGTTTCGTACTCCAGCACAGCGCCCTTCTAACGGGCGGGAGGAAGGCCGCTGCTCGCAGGG
CTAGGTGGAGACACACTTCCCAGATCACCGCAGGCGGGTTTTACCCGGAGAGCTCTGGCCGTTTCGGCCTCCCTGC
CGGGTGGCTTCTTCAATCCCGTCTCCTTCCCAAGCTCCCGGCTTTTTTCTAATCAGGCAGGCGTCTGTCAACCCTC
TCCACTTCTGGGCTGAAGCCTCCCCAAGCCCCGTGCGCCAACCTGTGTGGGTCTTCTTCGGGCCTCCCTCTCCG
CCCCGCTCCTGCTCCTACCTGCAGCACCCCCAGCTCCGACTCCAGACTCTCTGCATCAGGTCTCCCCACTCCACG
CTCCGGGCGCCCCAACTCCAACACCACGTCTGCGCGCAGGTTCTTCCCCGCGCGGAGGAGCGCGCAGGGTGGG
CGGCTTACCATAGCAAGTGATCCTGCGATAGGGAACGCGCCCTTGCCCCGAGGCTGCACTACCACAGGAAATAAC
GGCCTTCGTGGCCTCGAGTTTTTTATGAATAATAAAACGCGCTGTAAAAACCGTGGACGGAAAA

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FIGURE 1534

MSTGSVSDPEEMELRGLQREYPVPASKRPPLRGVERSYASPSDNSSAEEDPDGEEERCALGTAGSAEGCKRKR
RVAGGGGAGGSAGGGGKKPLPAKGSAAECKQSQRNAANARERARMRVLSKAFSRLKTSLPWVPPDTKLSKLDTLR
LASSYIAHLRQLLQEDRYENGYVHPVNLTWPFVVSGRPASAPKKFPQPTDYVEPPLKSDWNSLDGIIR

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FIGURE 1535

GCATATACTGTCATCATCTTGGAAGAAAAAGGCTGAGAACGTAAACTGAGGACAGAGGAGGAAAGCAGGGTGAC
CCCTGATGTTGCCCTAGAAAATGGAACAAAAACACAGCAAAACAGAAAACAGAAGATCTGACTCTGCCTTTAG
CCAGGAAAACAGTTTGGGGGAGTAAAAAGTATTAGGGAAAAGAGTGGGCATTTTGCCTGGAAAAAAGGTTTCTAG
AGCCATCTGGGCTTTCCGGGAACCTGGACCAGACTCTGGCCCAGTAGGATGTCCCCGTGTCTCCCCAGCAGAGC
AGGAACAGGGTGATACAGCTGTCCACTTCAGAGCTAGGAGAGATGGAAGTGAAGTGGCAGGAGATCATGTCCATC
ACCGAGCTGCAGGGTCTGAATGCTCCAAGTGAGCCATCATTTGAGCCCCAAGCCCCAGCTCCATACCTTGGACCT
CCACCACCCACAACCTTACTGCCCCTGCTCAATCCACCCAGATTCTGGCTTCCCACCTTCTCCACCACCTTATGAG
CTCCCAGCATCCACATCCCATGTCCCAGATCCCCCATACTCTATGGCAACATGGCCATAACAGTCTCCAAGCCA
CTGAGCCTCTCAGGCCTGCTCAGTGAGCCGCTCCAAGACCCCTTAGCCCTCCTGGACATTGGGCTGCCAGCAGGG
CCACCTAAGCCCCAAGAAGACCCAGAATCCGACTCAGGATTATCCCTCAACTATAGCGATGCTGAATCTCTTGAG
CTGGAGGGGACAGAGGCTGGTCGGCGGCGCAGCGAATATGTAGAGATGTACCCAGTGGAGTACCCCTACTCACTC
ATGCCCCAACTCCTTGGCCCCACTCCAACCTATACCTTGCCAGCTGCTGAGACCCCTTGGCCTTAGAGCCCTCCTCA
GGCCCTGTGCGGGCTAAGCCCCTGCACGGGGGGAGGCAGGGAGTCGGGATGAACGTCGGGCCTTGGCCATGAAG
ATTCTTTTCTACGGACAAGATTGTCAACTTGCCGGTAGATGACTTTAATGAGCTATTGGCAAGGTACCCGCTG
ACAGAGAGCCAGCTAGCGCTAGTCCGGGACATCCGACGACGGGGCAAAAACAAGGTGGCAGCCCAAGTGCAGC
AAGAGGAAGCTGGAACCATTTGTGCAGCTGGAGCGGGAGCTGGAGCGGCTGACCAATGAACGGGAGCGGCTTCTC
AGGGCCCGCGGGGAGGCAGACCGGACCCTGGAGGTCATGCGCCAACAGCTGACAGAGCTGTACCGTGACATTTTC
CAGCACCTTCGGGATGAATCAGGCAACAGCTACTCTCCTGAAGAGTACGCGCTGCAACAGGCTGCCGATGGGACC
ATCTTCCTTGTGCCCCGGGGGACCAAGATGGAGGCCACAGACTGAAGCTGGCCAGAGGGGTGGAAGTCTGATGG
GATTTCTTCATTCCCTTCTGATAAAGGTACTCCCCAACCCCTGAGTCCCAGAAGGAGCTGAGTTCTCTAGACCAG
AAGAGGATGACAATGGCAACAAGTGTGTTGGAAGTTCCAAGGTGTGTTCAAAGAGGCTTGCCCTTGAGGGAGGGCTG
GAATCTGTCTTCCCTGACTCGGCTCCTCAGGTCTTTAGCCTCCACCTTGTCTAAGCTTTGGTCTATAAAGTGCGC
TACAGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1536

MSPCPPQQSRNRVIQLSTSELGEMELTWQEIMSITELOGLNAPSEPSFEPQAPAPYLGPPPPPTTYCPCSIHPDSG
FPLPPPPYELPASTSHVPDPYPYSYGNMAIPVSKPLSLSGLLSEPLQDPLALLDIGLPAGFPKPQEDPESDSGLSL
NYSDAESLELEGTEAGRRESEYVEMYPVEYPYSLMPNSLAHSNYTLPAETPLALEPSSGPVRAKPTARGEAGSR
DERRALAMKIPFPTDKIVNLPVDDFNELLARYPLTESQLALVRDIRRRGKNKVAAQNCRKRLKETIVQLERELER
LTNERERLLRARGEADRTLEVMRQQLTELYRDIHQHLRDESGNSYSPEEYALQQAADGTIFLVPRGTKMEATD

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FIGURE 1537

CTTCCTCCCTCCCGCTCGCTTCTTCTCACGCCGGGAGCAGGCTCGCGCCTCGCACCGCTGCCCCGCGAGCAGCTC
CTCTTCTCCCGAGGCGCGCGGGGCGCCCCGCGAGCCCCGCGGCTGAGACCCGCGAGCCTGGAGGAGGGCTGTCC
GGGGCTTTGGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCTGTATTGACATCAAA
AAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAACAAATG
TGAAGTTAGTCATAGGCGAGCCTTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCACTGTGGAAGAA
GTATATTTCTCAGTTTAAAAATCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTTAATGCATCA
GTTTGATGATGCCGTCAGTATCACTGTGGCAATACTATTGCTTGTTACAGTTGCCTTTGTTTCAGGAATATCGTTC
AGAAAAATCTCTTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATTGGAGCA
TCACTTGCCCCGAGACTTGTTCCAGGTGATACAGTTTGCCTTTCTGTTGGGGATAGAGTTCCTGCTGACTTACG
CTTGTTTGAGGCTGTGGATCTTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCTTGTTCTAAGGTGAC
AGCTCCTCAGCCAGCTGCAACTAATGGAGATCTTGCATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAG
ATGTGGCAAAGCAAAGGGTGTGTGTCATTGGAACAGGAGAAAATTCTGAATTTGGGGAGGTTTTTAAAAATGATGCA
AGCAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTCTCTTTTACTCCTT
TGGTATAATAGGAATCATCATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAAATGTTTACTATTAGTGT
AAGTTTGGCTGTAGCAGCAATTCTGAAGGTCTCCCCATTGTGGTACAGTGACGCTAGCTCTTGGTGTTATGAG
AATGGTGAAGAAAAGGGCCATTGTGAAAAAGCTGCCATTGTTGAACTCTGGGCTGCTGTAATGTGATTGTTC
AGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCAGATGGTCTGCATGCTGA
GGTTACTGGAGTTGGCTATAATCAATTTGGGGAAAGTGATTGTTGATGGTGATGTTGTTTCATGGATTCTATAACCC
AGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAAACAATACTCTAATGGGGAA
GCCAACAGAAGGGGCCTTAATTGCTCTTGCAATGAAGATGGGTCTTGATGGACTTCAACAAGACTACATCAGAAA
AGCTGAATACCTTTTTAGCTCTGAGCAAAAAGTGGATGGCTGTTAAGTGTGTACACCGAACACAGCAGGACAGACC
AGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAGTACTGTACTACATACCAGAGCAAAGGGCAGAC
CTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACTCAGAGT
TCTTGCTTTGGCTTCTGGTCTGAACTGGGACAGCTGACATTTCTTGGCTTGGTGGGAATCATTGATCCACCTAG
AACTGGTGTGAAAGAAGCTGTTACAACACTCATTGCCTCAGGAGTATCAATAAAAATGATTACTGGAGATTCACA
GGAGACTGCAGTTGCAATCGCCAGTCGTCTGGGATTGTATTCCAAAACCTCCAGTCAGTCTCAGGAGAAGAAAT
AGATGCAATGGATGTTTCAGCAGCTTTCACAAATAGTACCAAAGGTTGCAGTATTTTACAGAGCTAGCCCAAGGCA
CAAGATGAAAATTATTAAGTCGCTACAGAAGAACGGTTCAGTTGTAGCCATGACAGGAGATGGAGTAAATGATGC
AGTTGCTCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTGCAAAGAGGCAGCAGA
CATGATCCTAGTGGATGATGATTTTCAAACCATAAATGCTGCAATCGAAGAGGGTAAAGGGATTATAATAACAT
TAAAAATTTCTGTTAGATTCCAGCTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACATTAATGAA
CTTCTCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATTATGGATGGACCCCCAGCTCAGAGCCT
TGGAGTAGAACCAGTGGATAAAGATGTCATTTCGTAAACCTCCTCGCAACTGGAAAGACAGCATTTTGACTAAAAA
CTTGATACTTAAATACTTGTTTCATCAATAATCATTGTTTGTGGGACTTTGTTTGTCTTCTGGCGTGAGCTACG
AGACAATGTGATTACACCTCGAGACACAACAATGACCTTCACATGCTTTGTGTTTTTTGACATGTTCAATGCACT
AAGTTCCAGATCCCAGACCAAGTCTGTGTTTGGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGCAGTTCT
TGGATCCATCATGGGACAATTACTAGTTATTTACTTTCTCCGCTTCAGAAGGTTTTTCAGACTGAGAGCCTAAG
CATACTGGATCTGTTGTTTCTTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAAGGTTGA
AAGGAGCAGGGAAAAGATCCAGAAGCATGTCTGGCTCTGGGAGAGGAGTGGACAGCAGCTGGTTGAGATACATCC
CCATCTGGAGACAGGACTGCCACTGACAGAAGATGTGAGCTGTGTCTAAGTCCAGTCTTGTGCCCAGCCGTGTCT
GCGCCTTCACTCTTTGGAACCTCTGCATACAACATCTTAGCACCATCTTCTGCAGCTCTTCTTACCTAAATAAA
GAAACAGCCCCAAGGGCAGTATTTCTAAAAGCACTGTAACAGCTTTTCAATTTCTCCACATATACTACAAATTCTA
TAAAGAAAAGAAATTAATTTAAAAAACTAAGATGTTTTTCTTCTTGGCTTCATAAATGCCTTGCTGTATAAATT
GAAATATTGATACTGAACGTGCTTTTTTAATGATGACCTAACTTTATTCAACCCATCGGAATTTACTTTTTCCCTG
AAATAAGATCTTTTCCACTGGTCTACTACCTGACCATAAACATGTCTGCATTTGAATTCTCTAAACCTAAATCT
GTGTCTATGAAAAATACAAATGACTATTAAATATTATCTCTTTACTGTTCTCTTTACCGAAAAA

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FIGURE 1538

MIPVLTSKKASELPVSEVASILQADLQNGLNKCEVSHRRAFHGWNEFDISEDEPLWKKYISQFKNPLIMLLLASA
VISVLMHQFDDAVSITVAILFVVTVAFVQEYRSEKSLEELSKLVPPECHCVREGKLEHTLARDLVPGDTVCLSVG
DRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAPOPAATNGDLASRSNIAFMGTLVRCGKAKGVVIGTGENSEF
GEVFKMMQAEAEAPKTPLOKSMDDLKGQLSFYSFGIIGIIMLVGWLLGKDILEMFTISVSLAVAAIPEGLPIVVTV
TLALGVMRMVKKRAIVKKLPIVETLGCCNVICSDKTGTLTKNEMTVTHIFTSDGLHAEVTGVGYNQFGEVIVDGD
VVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTGALIALAMKMGLDGLQQDYIRKAEYFSSSEQKWMVAVKCV
HRTQQDRPEICFMKGAYEQVIKYCTTYQSKGQTLTLTQQQRDVYQQEKARMGSAGLRVLALASGPELGQLTFLGL
VGIIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAV
FYRASPRHKMKIIKSLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIMSAIEE
GKGIYNNIKNFVRFQLSTSLAALTSLATLMNFPNPLNAMQILWINIIMDGPPAQSLGVEFPVDKDVIRKPPRNW
KDSILTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRDTTMTFTCFVFFDMFNALSSRSQTKSVFEIGLCSN
RMFCYAVLGSIMGQLLVIYFPPLQKVFTESLSILDLLFLLGLTSSVCIVAEI IKKVERSREKI QKHVWLWERSG
QQLVEIHPHLETGLPLTEDVSCV

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FIGURE 1539

GGGAGGAGAGAAAAGCC**ATG**GCCGACAAGGTCCTGAAGGAGAAGAGAAAGCTGTTTATCCGTTCCATGGGTGAAG
GTACAATAAATGGCTTACTGGATGAATTATTACAGACAAGGGTGCTGAACAAGGAAGAGATGGAGAAAAGTAAAAC
GTGAAAATGCTACAGTTATGGATAAGACCCGAGCTTTGATTGACTCCGTTATTCCGAAAGGGGCACAGGCATGCC
AAATTTGCATCACATACATTTTGTGAAGAAGACAGTTACCTGGCAGGGACGCTGGGACTCTCAGCAGATCAAACAT
CTGGAAATTACCTTAATATGCAAGACTCTCAAGGAGTACTTTCTTCCTTTCCAGCTCCTCAGGCAGTGCAGGACA
ACCCAGCTATGCCACATCCTCAGGCTCAGAAGGGAATGTCAAGCTTTGCTCCCTAGAAGAAGCTCAAAGGATAT
GGAAACAAAAGTCGGCAGAGATTTATCCAATAATGGACAAGTCAAGCCGCACACGTCTTGCTCTCATTATCTGCA
ATGAAGAATTTGACAGTATTCCTAGAAGAACTGGAGCTGAGGTTGACATCACAGGCATGACAATGCTGCTACAAA
ATCTGGGGTACAGCGTAGATGTGAAAAAAAAATCTCACTGCTTCGGACATGACTACAGAGCTGGAGGCATTTGCAC
ACCGCCCAGAGCACAAGACCTCTGACAGCACGTTCTGGTGTTCATGTCTCATGGTATTCGGGAAGGCATTTGTG
GGAAGAAACACTCTGAGCAAGTCCCAGATATACTACAACCTCAATGCAATCTTTAACATGTTGAATACCAAGA
GCCCCAAGTTTGAAGGACAAACCGAAGGTGATCATCATCCAGGCCTGCCGTGGTGACAGCCCTGGTGTGGTGTGGT
TTAAAGATTTCAGTAGGAGTTTCTGGAAACCTATCTTTACCAACTACAGAAGAGTTTGAGGATGATGCTATTAAGA
AAGCCCACATAGAGAAGGATTTTATCGCTTTCTGCTCTTCCACACCAGATAATGTTTCTTGAGACATCCCACAA
TGGGCTCTGTTTTTATTGGAAGACTCATTGAACATATGCAAGAATATGCCTGTTCTGTGATGTGGAGGAAATTT
TCCGCAAGGTTTCGATTTTCAATTTGAGCAGCCAGATGGTAGAGCGCAGATGCCACCCTGAAAAGAGTGACTTTGA
CAAGATGTTTCTACCTCTTCCCAGGACAT**TAAA**AATAAGGAACTGTATGAATGTCTGTGGGCAGGAAGTGAAGAG
ATCGTTCTGTAAAAGGTTTTTGAATTATGTCTGCTGAATAATAAACTTTTTTTGAAATAATAAATCTGGTAGAA
AAATGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1540

MADKVLKEKRKLFIRSMGEGTINGLLDELLQTRVLNKEEMKVKRENATVMDKTRALIDSVIPKGAQACQICITY
ICEEDSYLAGTLGLSADQTSGNYLNMQDSQGVLSFPAPQAVQDNFAMPTSSGSEGNVKLCSLEEAQRIWKQKSA
EIYPIMDKSSRTRLALIICNEEFDSIPRRTGAEVDITGMTMLLQNLGYSDVKKNLTASDMTTELEAFahrPEHK
TSDSTFLVFMShGIREGICGKKHSEQVPDILQLNAIFNMLNTKNCPSLKDKPKVIIIQACRGDSPGVVWFKDSVG
VSGNLSLPTTEEFEDDAIKKAHIEKDFIAFCSSTPDNVSWRHPTMGSVFIGRLIEHMQEYACSCDVEEIFRKVRF
SFEQPDGRAQMPTTERTVTLTRCFYLFPGH

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FIGURE 1541

GCGGGGCTGGCACCCGGGCGGAGGCTCTGATTCTGGGGGGAGGCCGACTCCACCCTGGCTGGAGGAACTGGGTGC
TCCTGCCCCGCTGGCCCCCTCGCGCGTGAGGATCTATCTCAGGCTAAGAAATGGCATTTCAAAAGGCAGTGAAAAGG
ACGATTCTTGTGGAGGAGGTGCTCTTGCAACTGTTTTAGGACTTTCTCAGTTTGCTCATTACAGAAGGAAACAA
ATGAACCTGGCCTATGTTAAAGCAGCAGACTGCATTTCAGAACCAGTTAACAGGGAGCCTCCTTCCAGAGAAGCT
CAGCTACTGACTTTGCAAAACACATCTGAATTTGATATCCTTGTTATTGGAGGAGGAGCAACAGGAAGTGGCTGT
GCGCTAGATGCTGTCACCAGAGGACTAAAAACAGCCCTTG TAGAAAGAGATGATTTCTCATCAGGGACCAGCAGC
AGAAGCACTAAATTGATCCATGGTGGTGTGAGATATCTGCAGAAGGCCATCATGAAGTTGGATATTGAGCAGTAT
AGGATGGTAAAAGAAGCCCTTCATGAGCGTGCCAACCTGCTAGAAATTGCTCCCCATTTATCAGCTCCATTGCCT
ATAATGCTTCCAGTTTACAAGTGGTGGCAGTTACCTTACTACTGGGTAGGAATCAAGCTGTATGATTTGGTTGCA
GGAAGCAATTGCCTAAAAGCAGTTATGTCTCAGCAAAATCAAGAGCCCTTGAACATTTCCCAATGCTCCAGAAG
GACAACTGGTAGGAGCAATTGTCTACTATGACGGACAACATAACGATGCACGGATGAACCTTGCCATTGCTCTG
ACTGCTGCCAGGTATGGGGCTGCCACAGCCAATTACATGGAGGTAGTGAGCTTGCTCAAGAAGACAGACCCCCAG
ACAGGGAAAGTGCATGTGAGCGGCGCACGGTGCAAGGATGTCTCAGGGCAGGAATTTGACGTGAGAGCCAAA
TGTGTTATCAATGCCACGGGACCTTTACGGACTCTGTGCGCAAAATGGATGATAAAGACGCAGCAGCTATCTGC
CAGCCAAGTGCTGGTGTCCATATTGTGATGCCTGGTTATTACAGCCCAGAGAGCATGGGACTTCTTGACCCAGCG
ACCAGTGATGGGCGAGTTATTTTCTTCTTACCCTGGCAAAAAGATGACGATCGCTGGCACTACTGATACTCCAAC
GATGTTACACACCATCCAATTCCTTCAGAAGAAGATATCAACTTCATTTTGAATGAAGTGCCTAATTACCTGAGT
TGTGATGTTGAAGTGAGAAGAGGGGATGTCTGGCAGCATGGAGTGGAATCCGTCCTCTTGTTACAGACCCCCAA
TCTGCAGATACTCAGTCTATCTCCCGAAATCATGTTGTTGATATCAGTGAGAGTGGCCTTATTACTATAGCAGGT
GGAAAGTGGACAACCTTATCGGTCTATGGCAGAAGATACCATAAATGCTGCTGTCAAAACTCATAATTTAAAAGCA
GGACCAAGTAGAACAGTTGGGCTTTTCCTTCAAGGGGGTAAAGATTGGAGCCCCACACTCTACATTAGGCTTGTG
CAGGATTATGGACTTGAAAGCGAGGTGGCACAGCATCTTGCCGCCACCTATGGTGATAAGGCCTTTGAGGTGGCC
AAAATGGCAAGTGTGACTGGCAAAAGGTGGCCTATTGTTGGAGTACATCTTGTTGTCAGAATTTCCATATATTGAA
GCAGAGGTGAAATATGGGATTAAGGAGIATGCCTGCCTGCTGTGGATATGATTTACGTCGTA CTGCTGGCC
TTTCTAAATGTCCAGGCAGCAGAGGAAGCCCTACCCAGGATTGTTGAACTGATGGGCAGGGAAGTGAATTGGGAT
GATTATAAGAAGCAGGAACAACCTTGAAACAGCCAGGAAGTTTCTATATTATGAAATGGGCTATAAATCTCGATCA
GAACAGTTAACAGATCGCTCTGAAATTAGCCTACTGCCTTCAGACATTGACAGGTATAAGAAGAGATTTTATAAG
TTTGATGCAGACCAGAAAGGCTTTATTACCATTGTTGATGTTGAGCGTGTATTAGAGAGTATCAATGTCCAAATG
GATGAAAATACACTCCATGAAATTCTAAATGAAGTTGATTTGAATAAAAATGGACAGGTTGAACTCAATGAATTT
TTGCAGCTGATGAGTGCTATTCAAAAAGGAAGGGTATCTGGAAGCCGGCTTGCTATACTAATGAAAACGCAGAA
GAGAACCTCGACAGAAGAGTTCCAATTCCAGTGGACCGTAGTTGTGGAGGATTGTCAGTCTGGGCAGTAAATCCA
CAGCCAACAAACATAGAAACGACAAATCACCATGTAACAACCAGAGATGACTGAAACCACTCTGAAATAATGAAT
GTGGATAGCTGCCTTTTTTAACACTAGAAAACATTCCAAAACTTTAAGGTGTTGGTGTATTTGCCAGCTTTATTT
GCTGTACTTTATTTGTATTTGCCATTGCTCTAGCTTTTAAGTATATTTTTTCTTTTTCTATTTTCAATGACAC
ATTAGTTTTGCATCTGTTTTGTGACCTGTTAGATGTGACACATTCTTTTTTGTATTCCCTTATTC

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FIGURE 1542

MAFQKAVKGTILVGGGALATVLGLSQFAHYRRKQMNLAYVKAADCISEPVNREPPSREAQLLTLQNTSEFDILVI
GGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLIHGGVRYLQKAIMKLDIEQYRMVKEALHERANLLEI
APHL SAPLPIMLPVYKWWQLPYYWVGIKLYDLVAGSNCLKSSYVLSKSRALHFPMLOKDKLVGAIVYYDGQHND
ARMNLAIALTAARYGAATANMEVVSLLKKTDPTGKVHVSGARCKDVL TGQEFDVRAKCVINATGPFTDSVRKM
DDKDAAAICQPSAGVHIVMPGYYSPEMGLLDPATSDGRVIFFLPWQKMTIAGTTDPTDVTTHHP IPSEEDINFI
LNEVRNYLSCDVEVRRGDVLAWSGIRPLVTDPKSADTQSI SRNHVVDISESGLITIAGGKWT TYRSM AEDTINA
AVKTHNLKAGPSRTVGLFLQGKDWSP TLYIRLVQDYGLESEVAQH LAATYGDKAFEVAKMASVTGKRWP IVGVH
LVSEFPYIEAEVKYGIKEYACTAVDMISRRLAFLNVQAAEEALPRIVELMGRELNWDDYKKQE QLETARKFLY
YEMGYKSRSEQLTDRSEISLLPSDIDRYKKRFHKFDADQKGFITIVDVQRVLESINVQMDENTLHEILNEVDLNK
NGQVELNEFLQLMSAIQGRVSGSRLAILMKTA EENLDRRVP IPVDRSCGGL

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FIGURE 1543

AAATGGTGAAAGGGGGGGAGGGGAGAAAAGAAAAAAAAAAAAAAAAAGAAAGGGGAAAGGGGGGAAAAATAAGAAAAAG
CGAGACAGAGGGCGCTGCCGCGTCCGCTCGCGGGGAAGGCTGGGGTCGGCCGGGTGCTAGGCCGGGGCCGAGGCCG
AGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGACTCGGAGCGGGATCCGGAGCGGGACCCAGG
AGCCGGCGCGGGGCC**ATG**GCGAGGCGCGGGCCAGGGTGGCGGCCGCTTCTGCTGCTCGTGCTGCTGGCGGGCGCG
GCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGCCTCTGCGGGGGGACGGGCTGGCTCCGCTG
GGGCGCACGACATAACCCCGGCCTCATGAGTACCTGTCCCCAGCGGATCTGCCCAAGAGCTGGGACTGGCGCAAT
GTGGATGGTGTCAACTATGCCAGCATCACCCGGAACCAGCACATCCCCAATACTGCGGCTCCTGCTGGGCCAC
GCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGGGAGCGTGGCCCTCCACCTCCTGTCCGTG
CAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTAATGACCTGTCCGTGTGGGACTACGCCAC
CAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGGACCAGGAGTGTGACAAGTTTAACCAATGT
GGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACACCCTCTGGAGGGTGGGAGACTACGGCTCC
CTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTACGCAAATGGTCCCATCAGCTGTGGAATAATGGCAACAGAA
AGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACACCACATATATAAACCATGTCGTTTCCGTG
GCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGAATTCATGGGGTGAACCATGGGGCGAGAGA
GGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCGCCAGATACAACCTTGCCATCGAGGAGCAC
TGTACATTTGGGGACCCCATCGTTT**TAA**GGCCATGTCACTAGAAAGCGCAGTTTAAGAAAAGGCATGGTGACCCATG
ACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGAACCTGGGGTGGCTATCAATATTGGATGGCG
AGGACAGCGTGGTACTGGCTGCGAGTGTTCTGAGAGTTGAAAGTGGGATGACTTATGACACTTGACACAGCATGC
TCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAAGAGTGACCTGCAACACAGGAAACGATGGGACCTCAGTC
TTCTTCAGCAGAGGACTTGATATTTTGTATTTGGCAACTGTGGGCAATAATATGGCATTTAAGAGGTGAAAGAGT
TCAGACTTATCACCATTCTTATGTCACTTTAGAATCAAGGG

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FIGURE 1544

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRTTYPRPHEYLSPADLPKSWDWRNV DGVN
YASITRNQHIPPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQH GIP
DETCNNYQAKDQECDFNQCCTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYA EYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTYKDGKGARYNLAIEEHCTFGD
PIV

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FIGURE 1545

CGCCGAGATCGGGTGCCCGGG**ATG**AGCCTCATCCGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCGCC
TGGGAGCTGCCCAAGACCTACGTGTCCCCGACGCACGTCGGCAGCGGGGCCTATGGCTCCGTGTGCTCGGCCATC
GACAAGCGGTCAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCCTTTCAGTCCGAGATCTTCGCCAAGCGC
GCCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCATTGGGCTCCTGGATGTCTTCAACCCA
GCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGATGCCCTTCATGCAGACGGATCTGCAGAAGATCATG
GGGATGGAGTTCAGTGAGGAGAAGATCCAGTACCTGGTGATCAGATGCTCAAAGGCCCTTAAGTACATCCACTCT
GCTGGGGTCGTGCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTCTGGAT
TTTGGGCTGGCGCGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGTACCGAGCCCCGAGGTG
ATCCTCAGCTGGATGCACTACAACCAGACAGTGGATATCTGGTCTGTGGGCTGTATCATGGCAGAGATGCTGACA
GGGAAAACCTCTGTTTCAGGGGGAAGATTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGC
ACGGAGTTTGTGAGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGGAAG
GATTTCACTCAGCTGTTCCACGGGCCAGCCCCAGGCTGCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTG
GACAAGCGCCTGACGGCCGCGCAGGCCCTCACCCATCCCTTCTTTGAACCCTTCCGGGACCCTGAGGAAGAGACG
GAGGCCCAGCAGCCGTTTGATGATTCTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTAC
AAGGAGATTGTGAACCTCAGCCCCATTGCCCCGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTG**TAG**GGACTC
ATCTTGATGGCACCGCCGGCCAGACACTGCCCAAGGACCAGTATTTGTCACTACCAAACCTCAGCCCTTCTTGGA
ATACAGCCTTTCAGCAGAGGACAGAAGGGTCTTCTCCTTATGTGGGAAATGGGCCTAGTAGATGCAGAATTCA
AAGATGTCGGTTGGGAGAACTAGCTCTGATCCTAACAGGCCACGTTAAACTGCCATCTGGAGAATCGCCTGCA
GGTGGGGCCCTTTCCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGCCTATGGCAGTGATG
CTGTGTTGGTTTCCTAGGGATGCTCTAACGAATTACCACAAACCTGGTGGATTGAAACAGCAGAACTTGATTCCC
TTACAGTTCTGGAGGCTGGAATCTGGGATGGAGGTGTTGGCAGGGCTGTGGTCCCTTTGAAGGCTCTGGGGAAG
AATCCTTCCTTGGCTCTTTTTAGCTTGTGGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCA
CTCCAGTCTCTGTCTCTTCTGTTCTCTCTCTTTTAAACAACAGTCATTGGATTTAGGGCCACCCCTAATCCTGTG
TGATCTTATCTTGATCCTTATTAATTAAACCTGCAAATACTCTAGTTCCAAATAAAAAAAAAAAAAAAAAA

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FIGURE 1546

MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVGSAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLL
LKHMQHENVIGLLDVFTPASSLRNFYDFYLVMPFMQTDLQKIMGMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRD
LKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFRG
KDYLDQLTQILKVTGVPGETEFVQKLNDKAAKSYIQSLPQTPRKDFTQLFPRASQAADLLEKMLELDVDKRLTAA
QALTHPFFFEPPRDPEEETEAQQPFDDSL EHEKLTVD EWKQHIYKEIVNFSPIARKDSRRRSGMKL

GGACACGAGGCTGGGACCGGAGTGGGGAGCGCGGCGTGAGAGTGCCACCCGGCGGGTGCGGGAGAGATCAGAAG
CCTCTTCCCCAAGCCGAGCCAACCTCAGCGGGGACCCGGGCTCAGGGACGCGGCGGCGGCGGCGGCGACTGCAGT
GGCTGGACGATGGCAGCGTCCGCCGGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTGC
GTGCTGGCGGCGGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGGAAGTATATACGCCAAAAGAAATCTTC
GTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTCAAGTCTACTAGTACGACTGGCGGGTTGACCTCAGTC
TCCTGGAGCTTCCAGCCAGAGGGGGCCGACACTACTGTGTCTGTTTTTCCACTACTCCCAAGGGCAAGTGTACCTT
GGGAATTATCCACCATTTAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGATGCATCAATCAACATA
GAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCCTCCTGACATCGTTGTCCAGCCT
GGACACATTAGGCTCTATGTCTAGAAAAAGAGAAATTTGCCGTGTGTTTTCCAGTTTGGGTAGTGGTGGGCATAGTT
ACTGCTGTGGTCCTAGGTCTCACTCTGCTCATCAGCATGATTCTGGCTGTCTCTATAGAAGGAAAACTCTAA
CGGGATTACACTGGCTGCAGTACATCAGAGAGTTTGTCAACAGTTAAGCAGGCTCCTCGGAAGTCCCCCTCCGAC
ACTGAGGGTCTTGTAAGAGTCTGCCTTCTGGATCTCACCAGGGCCCAGTCATATATGCACAGTTAGACCACTCC
GGCGGACATCAGAGTACAAGATTAACAAGTCAGAGTCTGTGGTGTATGCGGATATCCGAAAGAATTAAAGAGAAT
ACCTAGAACATATCCTCAGCAAGAAACAAAACCAAACTGGACTCTCGTGCAGAAAATGTAGCCCATTACCACATT
TAGCCTTGGAGACCCAGGCAAGGACAAGTACACGTGTACTCACAGAGGGAGAGAAAGATGTGTACAAAGGATATG
TATAAATATTCTATTTAGTCATCCTGATATGAGGAGCCAGTGTTCATGATGAAAAGATGGTATGATTCTACATA
TGTACCCATTGTCTTGCTGTTTTTGTACTTTCTTTTCAGGTCATTTACAATTGGGAGATTTTCAAAACATTCCTT
TCACCATCATTTAGAAATGGTTTGCCTTAATGGAGACAATAGCAGATCCTGTAGTATTTCCAGTAGACATGGCCT
TTTAATCTAAGGGCTTAAGACTGATTAGTCTTAGCATTTACTGTAGTTGGAGGATGGAGATGCTATGATGGAAGC
ATACCCAGGGTGGCCTTTAGCACAGTATCAGTACCATTTATTTGTCTGCCGCTTTTAAAAAATACCCATTGGCTA
TGCCACTTGAAAACAATTTGAGAAGTTTTTTTTGAAGTTTTTCTCACTAAAATATGGGGCAATTGTTAGCCTTACA
TGTGTGTAGACTTACTTTAAGTTTTGCACCCTTGAAATGTGTGCATATCAATTTCTGGATTCAATATAGCAAGATT
AGCAAAGGATAAATGCCGAAGGTCACCTTCATTCTGGACACAGTTGGATCAATACTGATTAAGTAGAAAAATCCAAG
CTTGCTTGAGAACTTTTGTAACTGGAGAGTAAAAAGTATCGGTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA

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FIGURE 1548

MAASAGAGAVIAAPDSRRWLWSVLAALGLLTAGVSALEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLTSVSWS
FQPEGADTTVSFFHYSQGQVYLGNYPPFKDRISWAGDLDDKKDASINNIENMQFIHNGTYICDVKNPPDIVVQPGHI
RLYVVEKENLPVFPVWVVGIVTAVVLGLTLLISMILAVLYRRKNSKRDTGCGSTSESLSPVKQAPRKSPSDTEG
LVKSLPSGSHQGPVIYAQLDHSGGHHSDKINKSESVVYADIRKN

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FIGURE 1549

TGCAGCTGTTTTCACTCCGCTGTGACTCAGAGCGCTCCGGGCTGCAGGAGAGGAAGAAATCTTGCA TCACCATGG
TGCACTTCTGTGGCCTACTCACCCCTCCACCGGGAGCCAGTGCCGCTGAAGAGTATCTCTGTGAGCGTGAACATTT
ACGAGTTTGTGGCTGGTGTGTCTGCAACTTTGAACTACGAGAATGAGGAGAAAGTTCCTTTGGAGGCCCTTCTTTG
TGTTCCCCATGGATGAAGACTCTGCTGTTTACAGCTTTGAGGCCTTGGTGGATGGGAAGAAAATTGTAGCAGAAT
TACAAGACAAGATGAAGGCCCGCACCAACTATGAGAAAGCCATCTCCCAGGGCCACCAGGCCTTCTTATTGGAGG
GGGACAGCAGCTCCAGGGATGTCTTCTCTTGCAATGTGGGTAACTTCCAACCTGGGTCTGAAGGCGGCAGTCACCC
TGAAGTATGTGCAGGAGCTGCCTCTGGAAGCAGATGGGGCTCTGCGCTTTGTGCTCCCAGCTGTCTGAATCCTA
GATACCAGTTCTCTGGGTCTGCTAAGGACAGTTGCCTTAATGTGAAGACTCCTATAGTCCCTGTGGAGGACCTGC
CCTACACACTCAGCATGGTCTGCCACCATAGATTCCCAGCATGGCATTGAGAAGGTCCAATCCAACCTGCCCCCTTGA
GTCCTACCGAGTACCTAGGAGAGGACAAGACTTCTGCTCAGGTTTCCCTGGCTGCTGGACACAAGTTTGATCGGG
ACGTGGAACCTCTGATTTACTACAATGAGGTGCATACCCCCAGCGTGGTTTTTGGAGATGGGGATGCCTAACATGA
AGCCAGGTCATTTGATGGGAGATCCATCTGCAATGGTGAGTTTCTATCCAAATATCCCAGAAGATCAACCATCAA
ATACCTGTGGAGAGTTTATCTTTCTCATGGACCGCTCGGGAAGTATGCAGAGCCCCATGAGTAGCCAGGATACAT
CTCAGCTGCGAATACAGGCAGCCAAGGAAACACTGATTTTGCTGCTGAAGAGTTTACCTATAGGCTGTTATTTCA
ACATCTATGGATTTGGCTCTTCCCTATGAGGCATGCTTTCGGGAGAGTGTGAAGTACACTCAGCAAAACATGGAGG
AGGCTCTGGGGAGAGTGAAGCTTATGCAGGCCGACCTAGGGGGCACTGAAATCTTGGCACCCTCCAGAACATTT
ACAGGGGACCCCTCCATCCCAGGCCACCCCTACAGCTTTTTGTCTTTACAGATGGAGAAGTTACAGACACGTTTA
GTGTAATTAAAGAAGTTAGGATCAACAGACAGAAACACAGGTAGGGAAGAAAATGTGATTTCCGGGTGATTGGTGC
TGAGTAGTGACACACAGACTCTAGTGCTACATGATGCCGGTGTGACCTTCCCTTCAAGAGGACCAAATGATTTCA
GAATTTAGTTTTAGCAGCTGAAAATTTATTTCTCCCTGTAAACGTTAAAAACAGTTTTTCCAAATAACATCAACAA
CACAGCAAAACCATTGTTTCTTATTCTTTCTAAACTACAACGAACACAAGAATTGAATAGTAAGATGTTAATTTT
TTTTACTATAAACATTTTTAGAGAAGTAAAAACATGCTGAAAACCTACACAAATTATAAGCATACAACCTGGACTCAT
TATCACAGTGAATGCACTGTGTGATCGCCACATAGGTAAAAACTGGAATGGTCGTAGGCCTCTCCATCTGTACCC
TTTTCCATCATGTCCTATTCCCTGTCACTACACACTAAAACTTTCCTGACTTACAATACCATGGGTTATTTATGC
TTGTTTTTGAATGAAAATAAATAAGTTATACAGTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1550

MVHFCGLLTLLHREPVLKSI SVSVNIYEFVAGVSATLNYENEEKVPLEAFFVFPMDSDSAVYSFEALVDGKKIVA
ELQDKMKARTNYEKAI SQGHQAFLLLEGDSSSRDVFSCNVGNLQPGSKAAVTLKYVQELPLEADGALRFVLPVNLN
PRYQFSGSSKDSCLNVKTPIVPVEDLPYTLSMVATIDSQHGIEKVQSNCP LSPTEYLGEDKTS AQVSLAAGHKFD
RDVELLIYYNEVHTPSVVLEMGMFNMKPGHLMGDPSAMVSFY PNIPEDQPSNTCGEFIFLMDRSGSMQSPMSSQD
TSQLRIQA AKETLILLLLKSLPIGCYFN IYGFSSYEACFPESVKYTQQTME EALGRVKLMQADLGGTEILAPLQN
IYRGPSIPGHPLQLFVFTDGEVTDTF SVIKEVRINRQKHR

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FIGURE 1551A

ATGGCTGGCGGAGCCTGGGGCCGCTGGCCTGTTACTTGGAGTTCCTGAAGAAGGAGGAGCTGAAGGAGTTCCAG
CTTCTGCTCGCCAATAAAGCGCACTCCAGGAGCTCTTCGGGTGAGACACCCGCTCAGCCAGAGAAGACGAGTGGC
ATGGAGGTGGCCTCGTACCTGGTGGCTCAGTATGGGGAGCAGCGGGCCTGGGACCTAGCCCTCCATACCTGGGAG
CAGATGGGGCTGAGGTCACTGTGCGCCCAAGCCCAGGAAGGGGGCAGGCCACTCTCCCTCATTCCCTACAGCCCA
AGTGAACCCCCACCTGGGGTCTCCAGCCAACCCACCTCCACCGCAGTGCTAATGCCCTGGATCCATGAATTGCCG
GCGGGGTGCACCCAGGGCTCAGAGAGAAGGGTTTTGAGACAGCTGCCTGACACATCTGGACGCCGCTGGAGAGAA
ATCTCTGCCTCACTCCTCTACCAAGCTCTTCCAAGCTCCCCAGACCATGAGTCTCCAAGCCAGGAGTCACCCAAC
GCCCCACATCCACAGCAGTGCTGGGGAGCTGGGGATCCCCACCTCAGCCAGCCTAGCACCCAGAGAGCAGGAG
GCTCCTGGGACCCAATGGCCTCTGGATGAAACGTCAGGAATTTACTACACAGAAATCAGAGAAAGAGAGAGAGAG
AAATCAGAGAAAGGCAGGCCCCCATGGGCAGCGGTGGTAGGAACGCCCCCACAGGCGCACACCAGCCTACAGCCC
CACCACCACCATGGGAGCCTTCTGTGAGAGAGAGCCTCTGTTCCACATGGCCCTGGAAAAATGAGGATTTTAAC
CAAAAATTCACACAGCTGCTACTTCTACAAAGACCTCACCCAGAAAGCCAAGATCCCCTGGTCAAGAGAAGCTGG
CCTGATTATGTGGAGGAGAATCGAGGACATTTAATTGAGATCAGAGACTTATTTGGCCAGGCCTGGATACCCAA
GAACCTCGCATAGTCATACTGCAGGGGGCTGCTGGAATTGGGAAGTCAACACTGGCCAGGCAGGTGAAGGAAGCC
TGGGGGAGAGGCCAGCTGTATGGGGACCGCTTCAGCATGTCTTCTACTTCAGCTGCAGAGAGCTGGCCCACTCC
AAGGTGGTGAGTCTCGCTGAGCTCATCGGAAAAGATGGGACAGCCACTCCGGCTCCATTAGACAGATCCTGTCT
AGGCCAGAGCGGCTGCTCTTCATCCTCGATGGTGTAGATGAGCCAGGATGGGTCTTGAGGAGCCGAGTTCTGAG
CTCTGTCTGCACTGGAGCCAGCCACAGCCGGCGGATGCACTGCTGGGCAGTTTGCTGGGGAAAACATACTTCCC
GAGGCATCCTTCTGATCACGGCTCGGACCACAGCTCTGCAGAACCTCATTCTTCTTTGGAGCAGGCACGTTGG
GTAGAGGTCTGGGGTTCTCTGAGTCCAGCAGGAAGGAATATTTCTACAGATATTTACAGATGAAAGGCAAGCA
ATTAGAGCCTTTAGGTTGGTCAAATCAAACAAAGAGCTCTGGGCCCTGTGTCTTGTGCCCTGGGTGTCTGGCTG
GCCTGCACTTGCCTGATGCAGCAGATGAAGCGGAAGGAAAAACTCACACTGACTTCCAAGACCACCACAACCCCTC
TGTCTACATTACCTTGCCAGGCTCTCCAAGCTCAGCCATTGGGACCCAGCTCAGAGACCTCTGCTCTCTGGCT
GCTGAGGGCATCTGGCAAAAAAGACCCTTTTTCAGTCCAGATGACCTCAGGAAGCATGGGTTAGATGGGGCCATC
ATCTCCACCTTCTTGAAGATGGGTATTCTTCAAGAGCACCCCATCCCTCTGAGCTACAGCTTTCATTACCTCTGT
TTCCAAGAGTTCTTTGCAGCAATGTCTATGTCTTGGAGGATGAGAAGGGGAGAGGTAAACATTCTAATTGCATC
ATAGATTTGGAAGACGCTAGAAGCATATGGAATACATGGCCTGTTTGGGGCATCAACCACACGTTTCTATTG
GGCCTGTAAAGTGATGAGGGGGAGAGAGAGATGGAGAACATCTTTCACTGCCGGCTGTCTCAGGGGAGGAACCTG
ATGCAGTGGGTCCCGTCCCTGCAGCTGCTGCTGCAGCCACACTCTCTGGAGTCCCTCCACTGCTTGTACGAGACT
CGGAACAAAACGTTCTTGACACAAGTGATGGCCCATTTGGAAGAAATGGGCATGTGTGTAGAAACAGACATGGAG
CTCTTAGTGTGCACTTTCTGCATTAAATTCAGCCGCCACGTGAAGAAGCTTCAGCTGATTGAGGGCAGGCAGCAC
AGATCAACATGGAGCCCCACCATGGTAGTCTGTTTCAGGTGGGTCCCAGTCACAGATGCCTATTGGCAGATTCTC
TTCTCCGTCTCAAGGTCACCAGAAACCTGAAGGAGCTGGACCTAAGTGGAACCTCGCTGAGCCACTCTGCAGTG
AAGAGTCTTTGTAAGACCCTGAGACGCCCTCGCTGCCTCCTGGAGACCCTGCGGTTGGCTGGCTGTGGCCTCACA
GCTGAGGACTGCAAGGACCTTGCTTTGGGCTGAGAGCCAACCAGACCCTGACCGAGCTGGACCTGAGCTTCAAT
GTGCTCACGGATGCTGGAGCCAAACACCTTTGCCAGAGACTGAGACAGCCGAGCTGCAAGCTACAGCGACTGCAG
CTGGTCAGCTGTGGCCTCACGTCTGACTGCTGCCAGGACCTGGCCTCTGTGCTTAGTGCCAGCCCCAGCCTGAAG
GAGCTAGACCTGCAGCAGAACACCTGGATGACGTTGGCGTGCGACTGCTCTGTGAGGGGCTCAGGCATCCTGCC
TGCAAACTCATACGCCTGGGGCTGGACCAGACAACTCTGAGTGATGAGATGAGGCAGGAACCTGAGGGCCCTGGAG
CAGGAGAAAACCTCAGCTGCTCATCTTCAGCAGACGGAAACCAAGTGTGATGACCCCTACTGAGGGCCTGGATACG
GGAGAGATGAGTAATAGCACATCCTCACTCAAGCGGCAGAGACTCGGATCAGAGAGGGCGGCTTCCCATGTTGCT
CAGGCTAATCTCAAACCTCTGGACGTGAGCAAGATCTTCCCAATTGCTGAGATTGCAGAGGAAAGCTCCCCAGAG
GTAGTACCGGTGGAACCTCTGTGCGTGCCCTTCTCCTGCCTCTCAAGGGGACCTGCATACGAAGCCTTTGGGGACT
GACGATGACTTCTGGGGCCCCACGGGGCCTGTGGCTACTGAGGTAGTTGACAAAGAAAAGAACTTGTACCGAGTT
CACTTCCCTGTAGCTGGCTCCTACCGCTGGCCCAACACGGGTCTCTGCTTTGTGATGAGAGAAGCGGTGACCGTT
GAGATTGAATTCTGTGTGTGGGACCAGTTCTGGGTGAGATCAACCCACAGCACAGCTGGATGGTGGCAGGGCCT
CTGCTGGACATCAAGGCTGAGCCTGGAGCTGTGGAAGCTGTGCACCTCCCTCACTTTGTGGCTCTCCAAGGGGGC
CATGTGGACACATCCCTGTTCCAAATGGCCCACTTTAAAGAGGAGGGGATGCTCCTGGAGAAGCCAGCCAGGGTG

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FIGURE 1551B

GAGCTGCATCACATAGTTCTGGAAAACCCAGCTTCTCCCCCTTGGGAGTCCTCCTGAAAATGATCCATAATGCC
CTGCGCTTCATTCCCGTCACCTCTGTGGTGTGCTTTACCACCGCGTCCATCCTGAGGAAGTCACCTTCCACCTC
TACCTGATCCCAAGTGACTGCTCCATTTCGGAAGGCCATAGATGATCTAGAAATGAAATTCCAGTTTGTGCGAATC
CACAAGCCACCCCGCTGACCCCACTTTATATGGGCTGTCTGTTACACTGTGTCTGGGTCTGGTTCAGGGATGCTG
GAAATACTCCCAAGGAAGTGGAGCTCTGCTATCGAAGCCCTGGAGAAGACCAGCTGTTCTCGGAGTTCTACGTT
GGCCACTTGGGATCAGGGATCAGGCTGCAAGTGAAAGACAAGAAAGATGAGACTCTGGTGTGGGAGGCCTTGGTG
AAACCAGGAGATCTCATGCCTGCAACTACTCTGATCCCTCCAGCCCGCATAGCCGTACCTTCACCTCTGGATGCC
CCGCAGTTGCTGCACTTTGTGGACCAGTATCGAGAGCAGCTGATAGCCCGAGTGACATCGGTGGAGGTTGTCTTG
GACAAACTGCATGGACAGGTGCTGAGCCAGGAGCAGTACGAGAGGGTGCTGGCTGAGAACACGAGGCCCAGCCAG
ATGCGGAAGCTGTTTACGCTTGAGCCAGTCCTGGGACCGGAAGTGCAAAGATGGACTCTACCAAGCCCTGAAGGAG
ACCCATCCTCACCTCATTATGGAAGTCTGGGAGAAGGGCAGCAAAAAGGGACTCCTGCCACTCAGCAGCTGAAGT
ATCAACACCAGCCCTTGACCCTTGAGTCCTGGCTTTGGCTGACCCTTCTTTGGGTCTCAGTTTCTTCTCTGCAA
ACAAGTTGCCATCTGGTTTGCCTTCCAGCACTAAAGTAATGGAAGTTTGATGATGCCTTTGCTGGGCATTATGTG
TCCATGCCAGGGATGCCACAGGGGGCCCCAGTCCAGGTGGCCTAACAGCATCTCAGGGAATGTCCATCTGGAGCT
GGCAAGACCCCTGCAGACCTCATAGAGCCTCATCTGGTGGCCACAGCAGCCAAGCCTAGAGCCCTCCGGATCCCA
TCCAGGCGCAAAGAGGAATAGGAGGGACATGGAACCATTTGCCTCTGGCTGTGTACAGGGTGAGCCCCAAAATT
GGGGTTCAGCGTGGGAGGCCACGTGGATTCTTGGCTTTGTACAGGAAGATCTACAAGAGCAAGCCAACAGAGTAA
AGTGGAAGGAAGTTTATTTCAGAAAATAAAGGAGTATCACAGCTCTTTTAGAATTTGTCTAGCAGGCTTTCCAGTT
TTTACCAGAAAACCCCTATAAATTAATAATTTTTTACTTAAATTTAAGAATTAATAATAATAACAAAAAGAAAAA
TGAAAAATAAAGGAATAAGAAGTTACCTACTCCAAAAAAAAAAAA

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FIGURE 1552

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSETPAQPEKTSGMEVASYLVAQYGEQRAWDLALHTWE
QMGLRSLCAQAQEGAGHSPSPFPYSPSEPHLGSPSQPTSTAVLMPWIHELPAAGCTQGSERRVLRQLPDTSGRRWRE
ISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPPQP SLAPREQEAPGTQWPLDETSGIYYTEIRERERE
KSEKGRPPWAAVVGTPPQAHTSLQPHHPWEP SVRESLCSTWPKNEDFNQKFTQLLLLQRP HPRSQDPLVKRSW
PDYVEENRGHLIEIRD LFGPGLDTQEPRIVILQGAAGIGKSTLARQVKEAWGRGQLYGDRFQHV FYFSCRELAQS
KVVSLAELIGKDG TATPAPIRQILSRPERLLFILDGVDEPGWVLQEPSSSELCLHWSQPQPADALLGSLLGKTI LP
EASFLITARTTALQNLIPSLEQARWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKS NKELWALCLVPWVSWL
ACTCLMQMKRKEKLT LTSTTTTTLCLHYLAQALQAQPLG PQLRDLCSLAAEGIWQKKT LFS PDDL RKHGLDGA I
ISTFLKMGILQEHP IPLSYSF IHLCFQEFFAAMSYVLEDEKGRGKHSNCI IDLEKTLEAYGIHGLFGASTTRFL L
GLLSDEGEREMENIFHCRLSQGRNLMQWVPSLQ LLLQPHSLESLSHCLYETR NKTFLTQVMAHFEEMGMCVETDME
LLVCTFCIKFSRHVKKLQLIEGRQHRSTWSP TMVVLFRWVPVTDAYWQILFSVLKVTRNLKELDLSGNSLSHSAV
KSLCKTLRRPRCLLET LRLAGCGLTAEDCKDLAFGLRANQTL TELDLSFNVLT DAGAKHLCQRLRQPSCKLQRLQ
LVSCGLTSDCCQDLASVLSASPSLKELDLQONNLD DVGVRLLCEGLRHPACKLIRLGLDQT TLSDEMRQELRALE
QEKPQLLIFSRRKPSVMTPT EGLDTGEMSNTSS LKRQRLGSERAASHVAQANLKLLDVSKIFP IAEIAEES SPE
VVPVELLCVPSPASQGD LHTKPLGTDDDFWGPTGPVATEVVDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTV
EIEFCVWDQFLGEINPQH SWMVAGPLLDIKAEPGAVEAVHLPHFVALQGGHVDTS L FQMAHFKEEGMLLEKPARV
ELHHIVLENPSFSPLGVLLKMIHNALRFIPVTSV VLLYHRVHPPEEVT FHLYLIPSDCSIRKAID DLEMKFQFVRI
HKPPPLTPLYMGCRYTVSGSGSGMLEILPK ELELCYRSPGEDQLFSEFYVGH LGSGIRLQVKDKKDET LVWEALV
KPGDLMPATTLIPPARIAVPSPLDAPQLLHFVDQYREQ LIARVTSVEVVLDK LHGQVLSQE QYERVLAENTRPSQ
MRKLFSLSQSWDRKCKDGLYQALKETHPHLIMELWEKGSKKGLLPLSS

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FIGURE 1553

CATTTTCATTGGCGTTTGAGTCAGCAAAGAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAAC
TGTTACAGTGAAAATGAAGAAGACAGTTCCCTCCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTATCATGTA
AGCTATGGCCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTATCTCTGAAACCTCTAAAACATCC
AAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAACCAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTA
AGCCAAATCCATCACTGATGATGACCTGGAGGCCATCGCCAATGACTCAGAGGAAGAAATCATCAAGCCTAGGTCA
GCACCTTTTAGCTTCCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCTGAATGAC
GCCCTCAATCAAAGTATAATTGAGCCAATGATCAGTACCTCACGGCTGCTGCATTACATAATCTGGATGAAGCA
GTGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGATGCTAAAATTACCGTGATTCTAAGAATCTCAAAA
ACTCAATTGTATGTGACTGCCCAAGATGAAGACCAACCAAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACC
ATCACAGGTAGTGAGACCAACCTCCTCTTCTCTGGGAAACTCACGGCACTAAGAACTATTTACATCAGTTGCC
CATCCAAACTTGTTTTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGGGCCACCTCTATCACTGAC
TTTCAGATACTGGAAAACCAGGCGTTAGGTCTGGAGTCTCACTTGTCTCACTTGTGCAGTGTTGACAGTTTCATATG
TACCATGTACATGAAGAAGCTAAATCCTTTACTGTTAGTCATTTGCTGAGCATGTACTGACCCTTGTAATTTCTAA
ATGAATGTTTACACTCTTTGTAAGAGTGGAACCAACACTAACATATAATGTTGTTATTTAAAGAACACCCCTATAT
TTTGCATAGTACCAATCATTTTTAATTATTATTCTTCATAACAATTTTAGGAGGACCAGAGCTACTGACTATGGCT
ACCAAAAAGACTCTACCCATATTACAGATGGGCAAATTAAGGCATAAGAAAATAAGAAATATGCACAATAGCAG
TTGAAACAAGAAGCCACAGACCTAGGATTTTCATGATTTTCATTTCACTGTTTGCCTTCTACTTTTAAGTTGCTGA
TGAACTCTTAATCAAATAGCATAAGTTTCTGGGACCTCAGTTTTATCATTTTTCAAATGGAGGGAATAATACCTA
AGCCTTCCTGCCGCAACAGTTTTTTATGCTAATCAGGGAGGTCATTTTGGTAAAATACTTCTTGAAGCCGAGCCT
CAAGATGAAGGCAAAGCACGAAATGTTATTTTTTAATTATTATTTATATATGTATTTATAAATATATTTAAGATA
ATTATAATATACTATATTTATGGGAACCCCTTCATCCTCTGAGTGTGACCAGGCATCCTCCACAATAGCAGACAG
TGTTTTCTGGGATAAGTAAGTTTGATTTTCAATTAATACAGGGCATTGTTGGTCCAAGTTGTGCTTATCCCATAGCCA
GGAAACTCTGCATTCTAGTACTTGGGAGACCTGTAATCATATAATAAATGTACATTAATTACCTTGAGCCAGTAA
TTGGTCCGATCTTTGACTCTTTTGCCATTAACTTACCTGGGCATTCTTGTTTCATTCAATTCCACCTGCAATCA
AGTCCTACAAGCTAAAATTAGATGAACTCAACTTTGACAACCATGAGACCACTGTTATCAAAGTTGAGTTCATCT
AATTTTAGCTTGTTAGAGACGGGATTTACCATCTTGCCGTGCTGGTCTCGAACTTCTGACCTCGTGATCCACCC
GCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCGCCCGGCCTGGAGTTTCTACTGTGCACCAG
GCACTACCTTTACATGTATTGTTTTATTTAATCCTCAGTCAGCCGTGTTTGGTAGGTGCAGTTAGTATATTTCCA
TTTTCATCTGCGCAAACAGATTCAGGAACCTTTGTAATTTACATAAGGTCACATTCATCCTAATTCACAAAATCAA
GATTTACACCTATTCTTTTTCTTTCCAGTGCCTGTGCTTTTTCTCTCATACCAAGGAGAAGTAATAAGCCTAA
CGTTTTAAACCTCACAAAAGTACATACAGAAAAGTAAATAGCCTAATTTTGCAACTAATACAAATGGCGCTGTAC
TTCTTTGGTGATGGTAGATTTATAATTTTTGAAGTATGGTAGATTCAAATGAACCACTGAAAAGGCATTTAGTTT
CTTGTCCCAAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1554

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVSLSETSKTSKLTFKESMVVVA
TNGKVLKKRRRLSLSQSITDDDLEAIANDSEEEI IKPRSAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQ
YLTAAALHNLDEAVKFDMGAYKSSKDDAKITVILRISK TQLYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFW
ETHGTKNYFTSVAHPNLF IATKQDYWVCLAGGPPSITDFQILENQA

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FIGURE 1555

GCCATTCTCTCACATCCCGTGCGGTCAGGAAGCCCTTCCTGAACTCTGACTTCAGTTCTTGCTGCGGTTTCTGCC
CATTTTTTTCATATCCTCTGACAGCTGCGAGGTCATCTCTGCTCTGGCTTTTCTCCAAGCAGAACAAGTGGGGGC
TCTGGAAGGTTAAGGGACCTCAGTGGCCACCATTATACTTTGCATCTTTCCTGAGAAGTGAGAGTTGAAAGGA
AGCAGGAAGGCCCATGGTCAGATTGAAGGAAGGACTTTTTAGTTTCTTTTTTTTTTTTTTGAATGGAGTCTCGC
TCTGTCAATTCAGGCTGGAGTGCAGTGGTGCGATCTCAGCTCACTGCAGCCTCCACTTCCTGGGTTTCACATGATTC
TCCTGCCTCAGCCTCCCAAGTAGCTGAGACTACAGGCACATGCCACTACACCCAGCTAACTTTTGTATTTTAGT
AGAGACGGGGTTTACCATTGTTGGCCAGGCTGGTCTCAAAGTCTAACATCAAGTGATCTGCTCCCTCAGCCTC
CCAAAGTGCTGGGATTACCGGTATGAACCACCACAACCTGCCAGGAATTTTGTATTTTAGCTTTTGCAGGAGAC
TTCAAGGAAAGGAGACATTCTCTGTCCAGGAAACGGGTAAGGGGACCATTCTGCATTGCTGGTTTCCCTCTT
GGCAGGGTGGGCATGAGGCATCACTGTTCTGCTCCCTCACTCCTGCTCCTCATGCTCAGCCTGCCAGCTCGGCC
TCAACTTTGTGTGTCTAAAGTGGAAGTGAATAGTAGCTGTGAGAAGATAGGAAAGAGGTAGTGCCAATCTCCTTG
CCCAGATCATAAATCCAGACTCAGCAGGGTAACCACATGGGCAAGCACAAAGGTAGGTGCTTGGGGAAAGGGGAAG
TAATTGGCATTCTGTGTGATACCAAGGAGACCATTGGATTGTGGCTTCTACCAAAGAGAATGGAGAATTGGTTG
ACCTAAATGGAACCAGTCCCTTTAAGTAAGGGGAGGAAAGGGGGTGCTGGAAGATGGCCCTCTTCCACCACCTA
GATCATAGCTTGAAGTGAAGCCAAGGACAGAGTGCTGCCCCCTTCGGCATTACTGATGTGCCCTCTTTAAATCA
TGATGTTATCTAACCACAAACCCAGACCCAGGACCTAGTCACAGCTCCAACCTACACTTCCTATTAATCTTAAAC
AAAGCGAAACAAACACAAAAGATATCAGCATTGTAGCCTCCAATCTGAGCCATTTCCTTCTCTGGCTACCAT
ACCTCCTTCTCCTATATGATACCATTCACTACTTTGTTCAATTATCCAGTCTAGACCTGCATCTTGAGGCCACAC
CCAGCCTTCTCACTCCCCACACCCCTCTTTCTCTCTCACTGCTCCTTCTGGTCTCTTCTCATCTGGCCCCACC
TCTAAGGAGTCTCCTGCTTCTGGGTTGCCCTGGAAAACAGACTATCCCCCTCCTAGTGAAGGGAGTGGGTAG
GGGTTTTCAGCCCCACCCTCAGGAAGATGCGTCTTCCCTGTCTCTGCTCTGTGGTACTTCTCTCTGGCTGATT
AGCAAAACAGCACCTAGACCTGGGGCCAGGCCTTTGGCAGTGGGACAGATCCAGGGATAGGCTACACCACCCTGCC
CTGACCCTGGGATTGGCATCAGCTTCCAACCAGTTCTTGCCAAAGCTTGTAAGTCTCCCGACGGCCATGAACAC
TACATCTTCTGCAGCACCCCCCTCACTAGGTGTAGAGTTCACTCTCTCTGCTGGCTATCATCTGCTGCTAGTGGC
GCTGGCTGTGGGGCTTCCCGGCAACAGCTTTGTGGTGTGGAGTATCCTGAAAAGGATGCAGAAGCGCTCTGTAC
TGCCCTGATGGTGTGAACCTGGCCCTGGCCGACCTGGCCGTATTGCTCACTGCTCCCTTTTCTCTCACTTCCT
GGCCCAAGGCACCTGGAGTTTGGACTGGCTGGTTGCCGCTGTGTCACTATGTCTGCGGAGTCAGCATGTACGC
CAGCGTCTGCTTATCACGGCCATGAGTCTAGACCGCTCACTGGCGGTGGCCCGCCCTTTGTGTCCCAGAAGCT
ACGCACCAAGGCGATGGCCCGGCGGGTGTGGCAGGCATCTGGGTGTTGTCCTTTCTGCTGGCCACACCCGTCT
CGCGTACCGCACAGTAGTGGCCCTGGAAAACGAACATGAGCCTGTGCTTCCCGCGGTACCCAGCGAAGGGCACCG
GGCCTTCCATCTAATCTTCGAGGCTGTACGGGCTTCTGCTGCCCTTCTGGCTGTGGTGGCCAGCTACTCGGA
CATAGGGCGTCGGCTACAGGCCGGCGCTTCCGCCGACGCCGCCGACCGGCCGCTGGTGGTGTCTCATCTCT
GACCTTCGCCGCTTCTGGCTGCCCTACCACGTGGTGAACCTGGCTGAGGCGGGCGCGCGCTGGCCGGCCAGGC
CGCCGGGTTAGGGCTCGTGGGGAAGCGGCTGAGCCTGGCCCGCAACGTGCTCATCGCACTCGCCTTCTGAGCAG
CAGCGTGAACCCGTGCTGTACGCGTGCGCCGGCGGGCGGCTGCTGCGCTCGGCGGGCGTGGGCTTCGTGCCAA
GCTGCTGGAGGGCACGGGTTCCGAGGCGTCCAGCACGCGCCGCGGGGCGAGCCTGGGCCAGACCGCTAGGAGCGG
CCCCGCCGCTCTGGAGCCCGGCCCTTCCGAGAGCCTCACTGCTCCAGCCCTCTCAAGTTAAACGAACTGAACTA
GGCCTGGTGGAAAGGAGGCGCACTTCTCTCTGGCAGAATGCTAGCTCTGAGCCAGTTCACTACCTGGAGGAGGAG
CAGGGGCGTGGAGGGCGTGGAGGGCGTGGGAGCGTGGGAGGCGGGAGTGGAGTGGAGAAGAGGGAGAGATGGAG
CAAAGTGAGGGCCGAGTGAGAGCGTGCTCCAGCCTGGCTCCACAGGCAGCTTTAACCATTAACCTGAAGTCTG
AA

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FIGURE 1556

MNTTSSAAPP^{SL}GVEFISLLAIILL^SVALAVGLPGNSFV^{WS}ILKRMQKRSVTALMVLN^LALADLAVLLTAPFFL
HFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVARPFVSQKLRTKAMARRVLAGIWVLSFLLAT
PVLAYRTVVPWKTNMSLCFPRYPSEGHRAFH^LIFEAVTGFLLPFLAVVASYS^DIGRR^LQARRFRRSRRTGRLVVL
IILTFAAFWLPYHV^NLAEAGRALAGQAAGLGLVGKRLSLARNVLI^AFLSSSVNPVLYACAGGGLLRSAGVGF
VAKLLEGTGSEASSTRRGSLGQTARSGPAALEPGPSESLTASSPLKLNELN

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FIGURE 1557

AGGGAACATCTCGGGGAGCCTGGTTGGAAGCTGCAGGCTTAGTCTGTCTGGCTGCGGGTCTCTGACTGCCCTGTGG
GGAGGGTCTTGCCCTTAACATCCCTTGCAATTTGGCTGCAAAGAAATCTGCTTGGAAGAAGGGGTTACGCTGTTTGG
CCGGGCAGAAACTCCGCTGAGCAGAACTTGCCGCCAGAAATGCTCCTCCTGTTGCTGAGTATCATCGTCCTCCACG
TCGCGGTGCTGGTGTCTGCTGTTTCGTCTCCACGATCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATC
TCTGGCAGAACTGTAGCACCTCTTCCTCAGGAAATGTCCACCACTGTTTCTCATCATCACCAAACGAATGGCTGC
AGTCTGTCCAGGCCACCATGATCCTGTGATCATCTTCAGCATTCTGTCTCTGTTTCTGTTCTTCTGCAACTCT
TCACCTCACCAGGGGGGAGGTTTTACATCACTGGAATCTTCAAATTCTTGCTGGTCTGTGCGTGATGAGTG
CTGCGGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACTCCTACGGTTTCGCCCTACATCC
TGGCCTGGGTGGCCTTCCCCCTGGCCCTTCTCAGCGGTGTCTATGTGATCTTGCGGAAACGCGAATGAGGGCG
CCCAGACGGTCTGTCTGAGGCTCTGAGCGTACATAGGGAAGGGAGGAAGGGAAACCAGAAAGCAGACAAAAGAAAA
AAGAGCTAGCCCAAATCCCAAACCTCAAACCAAACCAAACAGAAAGCAGTGGAGGTGGGGGTTGCTGTTGATTGA
AGATGTATATAATATCTCCGGTTTATAAAACCTATTTATAACACTTTTTACATATATGTACATAGTATTGTTTGC
TTTTTATGTTGACCATCAGCCTCGTGTGAGCCTTAAAGAAGTAGCTAAGGAACTTTACATGGTAACAGTATAAT
CCAGCTCAGTATTTTTGTTTTGTTTTTGTGTTGTTTGTGTTTTTACCCAGAAATAAGATAACTCCATGTCGCC
CCTTCCCTTTTCATCTGAAAGAAGATACTCCCTCCAGTCCACCTCATTTAGAAAACCAAAGTGTGGGTAGAAAC
CCCAAATGTCCAAAAGCCCTTTTCTGGTGGGTGACCCAGTGCATCCAACAGAAACAGCCGCTGCCCCGAACCTGTG
TGAAAGCTTTACGCGCACACGGACAAAATGCCCAAACCTGGAGCCCTTGCAAAAACACGGCTTGTTGGCATTGGCATA
CTTGCCCTTACAGGTGGAGTATCTTCGTACACATCTAAATGAGAAATCAGTGACAACAAGTCTTTGAAATGGTG
CTATGGATTTACCATTCCTTATTATCACTAATCATCTAAACAACCTCACTGGAAATCCAATTAACAATTTTACAAC
ATAAGATAGAATGGAGACCTGAATAATTCTGTGTAATATAAATGGTTTTATAACTGCTTTTGTACCTAGCTAGGCT
GCTATTATTACTATAATGAGTAAATCATAAAGCCTTCATCACTCCCACATTTTCTTACGGTTCGGAGCATCAGAA
CAAGCGTCTAGACTCCTTGGGACCGTGAGTTCCTAGAGCTTGGCTGGGTCTAGGCTGTTCTGTGCCTCCAAGGAC
TGTCTGGCAATGACTTGTATTGGCCACCAACTGTAGATGTATATATGGTGCCCTTCTGATGCTAAGACTCCAGAC
CTTTTGTGTTTTGCTTTGCATTTTCTGATTTTATACCAACTGTGTGGACTAAGATGCATTAAAATAAACATCAGAG
TAACTC

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FIGURE 1558

MLLLLLSIIVLHVAVLVLLFVSTIVSQWIVGNHATDLWQNCSTSSSGNVHHCFS SSPNEWLQSVQATMILSIIF
SILSLFLFFCQLFTLTKGGRFYITGIFQILAGLCVMSAAAIYTVRHPEWHLNSDYSYGFAYILAWVAFPLALLSG
VIYVILRKRE

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FIGURE 1559

[illegible]

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FIGURE 1560

MTPIVTVLICLGLSLGPRTRVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASWITRIRP
ELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLVMTGAYPKPTLSAQSPVVTSGGRVTLQCESQVAF
GGFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVWSSPSDLLELLVPGVSKKP
SLSVQPGPVMAPGESLTLQCVSDVG YDRFVLYKEGERDLRQLPGRQPQAGLSQANFTLGPFVSRSYGGQYRCYGAH
NLSSECSAPSDPLDILITGQIRGTPFISVQPGPTVASGENVTLLCQSWRQFHTFLLTKAGAADAFLRLRSIHEYF
KYQAEFFMSPV TSAHAGTYRCYGS LN SDPYLLSHPS EPLELVVSGPSMGSSPPPTGP ISTPGPEDQPLTPTGSDP
QSG LGRHLGVVIGILVAVVLLLLLLLLLLFLILRHRRQ GKHW TSTQRKADFQHPAGAVGPEPTDRGLQWRSSPAAD
AQEENLYAAVKDTQPEDGVEMDTRAAASEAPQDV TYAQLHSLTLRRKATEPPPSQEREPPAEP SIYATLAIH

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FIGURE 1561A

ATCTGCACAGCTGGGGCCCCTGGGAGGAGACGCC**ATG**ATCCCCACCTTCACGGCTCTGCTCTGCCTCGGGCTGAG
TCTGGGCCCCAGGACCGACATGCAGGCAGGGCCCCCTCCCCAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGAT
CAGCTGGGGGAACCTCTGTGACCATCTGGTGTGACGGGGACCCTGGAGGCTCGGGAGTACCGTCTGGATAAAGAGGA
AAGCCCAGCACCCCTGGGACAGACAGAACCCACTGGAGCCCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGAC
AGAGGACTATGCAGGGAGATAACCGCTGTTACTATCGCAGCCCTGTAGGCTGGTCACAGCCCAGTGACCCCCCTGGA
GCTGGTGTATGACAGGAGCCTACAGTAAACCCACCCTTTTCAGCCCTGCCGAGTCCTCTTGTGACCTCAGGAAAGAG
CGTGACCCTGCTGTGTGTCAGTCACGGAGCCCAATGGACACTTTTCCTTCTGATCAAGGAGCGGGCAGCCCATCCCCCT
ACTGCATCTGAGATCAGAGCACGGAGCTCAGCAGCACCAGGCTGAATTCCCCATGAGTCCTGTGACCTCAGTGCA
CGGGGGGACCTACAGGTGCTTCAGCTCACACGGCTTCTCCCACTACCTGCTGTGACACCCCAAGTGACCCCCCTGGA
GCTCATAGTCTCAGGATCCTTGGAGGGTCCCAGGCCCTCACCCACAAGGTCCGTCTCAACAGCTGCAGGCCCTGA
GGACCAGCCCCTCATGCCTACAGGGTCAGTCCCCCACAGTGGTCTGAGAAGGCACTGGGAGGTACTGATCGGGGT
CTTGGTGGTCTCCATCCTGCTTCTCTCCCTCCTCCTCTTCTCCTCCTCCAACACTGGCGTCAGGGAAAACACAG
GACATTGGCCCAGAGACAGGCTGATTTCCAACGTCCTCCAGGGGCTGCCGAGCCAGAGCCCAAGGACGGGGGCCT
ACAGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGGGAGAAAACCTTCTGTGCTGCCGTGAAGAACACACAGCCTGA
GGACGGGGTGGAATGGACACTCGGCAGAGCCACACGATGAAGACCCCAAGGCAGTGACGTATGCCAAGGTGAA
ACACTCCAGACCTAGGAGAGAAATGGCCTCTCCTCCCTCCCCACTGTCTGGGGAATTCCTGGACACAAAGGACAG
ACAGGCAGAAGAGGACAGACAGATGGACACTGAGGCTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCCG
GCTGCACAGCTTTACCCTCAGACAGAAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGGCCTCTCCAGCTGAGCC
CAGTGTCTATGCCACTCTGGCCATCCAC**TAAT**CCAGGGGGGACCCAGACCCCAAGCCATGGAGACTCAGGACC
CCAGAAGGCATGGAAGCTGCCTCCAGTAGACATCACTGAACCCCAAGCCAGCCAGCCAGACCCCTGACACAGACCACTA
GAAGATTCCGGGAACGTTGGGAGTCACCTGATTCTGCAAAGATAAATAATATCCCTGCATTATCAAAAAATAAGTA
GCAGACCTCTCAATTCACAATGAGTTAACTGATAAAAAACAAACAGAAGTCAGACAATGTTTTAAATGAATGATC
ATGTAAATATTACACATCAAACCAATGACATGGGAAAAATGGGAGCTTCTAATGAGGACAAAACAAAAAATAGAGAA
AAATTAATAAAGTCAAAATGTTTTATTCTTGAAAAACATTAATGATACATGAATCTTGCCACAATGAGAAAAATAA
AAATGAAAAAAGAGCAGGCATCCATTTCCATACAGGAACAAAATAGGAGGCAGCACTACAGACCCCTACACACAGC
TTTACAGAGGTGAAAGAAAACCTGTCAGCAATTCTATGCTGACATAACAGAAAATGTAGATGAGATAGATGAAATA
CGAAAAATTACAGTTTACTTAAATGAACATAAGGATAAATAGAAAACTGAATCATCATAACATAATATATAAA
ATGCATTGATCCTGTAATCAAAAATGTTCCCAACAAAGTAAATGCCACTTCAGCAAGGTTTGTGGTGGTTTTTTC
AAACTCTTATGCACTCATGAACACACAGACACACACACACAACTTGATAAATTTCCCTGAGAATATTTT
GTATATATTTACACAAATACATTTGATCAGACTAGGAACAAGTTGATACCAAAACCTGAAAAGGAACTACAGAA
TGGGAAAGTCATAGAAGATCTCTCACAGAAATATAAATCCCTTAACAAATATTAACAAGTAAGATTCTATGTCTCT
ATAAAATAGACAGTATATCATGACCACACTGGTTTTTTGTTATCCTTTGATTTTGTATGAAAAGCAAGGATAG
CTTAATTTTCAAAAACCTCAATCAATGTAATTCAGTATTTTAACAAAAGGAATGAAAAATTATCATCTCAATAGAC
AAAGCTTTTGTCTGAGCACCTTTTCATATAGCTGCTGACCATTGTATGTCTTCTTTTGAGAAATGCCTGTTTCAG
CTACTTTGCCCATGTTTTCAAGTAGTTTTTGGTTTCTTGCTGTTGCTTTGTTTTAGTTCCTTACATATTTTTGCAT
ATTAACCCTTTATCAGGTATACAGCTTGCAACTATTTTCTCCCATTTCTGAGTTGTCTCTTCATTCTGTTTGCAG
AAGCTGTTTAGAAGCCACACCTTTTGTCTATTTTGTCTTTTGTGCTTGTGTTTTCAGGGCCATATCCAAAAAAA
CCTTGCCCGGACCAACGTCTTGAAGCTTTTCTCACACCCATTTTTGTATATGGGATAAGGGTTCAATTTTCATTCT
TCTTCATATGAATATCCCCAGGATGTGTATATGCCAGCTGCACAGCTTACCCTCAAACAGAAAAATAATGAAGC
CTTCTTCTCCCAAGGAAAGGGGACGTTTCAGCTGAGCCGAGTGTGTATACTGCTCTGGCCATCCACTAGCCCAGGG
AGGACCCAGACCTCCACACTCCATGGAGACTCAGTTCTCCTAGGACCATTTATTCAAAGGACTGCCCTCTCTTG
TTCTTGAAACTTTGTTGAGGATCAATTCACCATAAATATGTGTGTTTCTTCTTTGCTTTTCATCCCTGTTGCAC
TGATCACTATACCTGTTTCTATTCCAGTTCCATGATGTCTTCTGGCTGTAGCTTTGTAGGATATTTGGGGATT
CATAGTGTGATATCCCTTTCTTCCCTTTGCTCAAGATTGTTTTGGCTATTTGGGGTCCTTTTGTAGTCCCATTCA
AATTTTAGGATTGTTTTTCTATTTCTGTGGAAAACGACCTTGGAATTTTGTAGGAATTGCATTGAGTCTGCAGG
TATGAACCTTTTTTTTTAAAGTTCCAGGGCACATGTACAGGACCTGCAGCTTTGTTACATAGGTAGGCTTGTGCCAT
GGTGGTTTGTGTCACCTATCAACCCATTACCTAGTTATTAAGCCAGCATGCATTAGCTCTTTTTCTGATGCTC
TCCCTCCCTTCATCATCCGCCCTCCCACTACAAGCCCCAGTGTGTGTTGTTCCCTCCCTGTGTCCATGTGTCT

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FIGURE 1561B

CATTGTTATACGAACATTTTAACAATGTTAATTCTTGCAGACCATGAACATAAGCTACCTTCCCATTATATGCG
TCTTGTTCAATTCATTCATCAATGTTATAAAGATTTTAGTGCAGAAAAAAAAAAAAAAAAA

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FIGURE 1562

MIPTFTALLCLGLSLGPRTDMQAGPLPKPTLWAEFGSVISWGNSVTIWCQGTLEAREYRLDKEESPAPWDRQNPL
EPKNKARFSIPSMTEYAGRYRCYYRSPVGWSQPSDPLELVMTGAYSKPTLSALPSPLVTS GKSVTLLCQSRSPM
DTFLLIKERAAHPLLHLRSEHGAQQHQAEFPMSPVTSVHGGTYRCFSSHGF SHYLLSHPSDPLELIVSGSLEGPR
PSPTRSVSTAAGPEDQPLMPTGSPVPHSGLRRHWEVLIGVLVVSILLLSLLL FLLLQHWRQGKHRTLAQRQADFQR
PPGAAEPEPKDGGLQRRSSPAADVQGENFCAAVKNTQPEDGVEMDTRQSPHDEDPQAVTYAKVKHSRPREMASP
PSPLSGEFLDTKDRQAEEDRQMDTEAAASEAPQDVTYARLHSFTLRQKATEPPPSQEGASPAEPSVYATLAIH

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FIGURE 1563

GGTTTTCAGGAGCCCGAGCGAGGGCGCCGCTTTTGCCTCCGGGAGGAGCCAACCGTGGCGCAGGCGGCGCGGGGA
GGCGTCCCAGAGTCTCACTCTGCCGCCCAGGCTGGACTGCAGTGACACAATCTCGGCTGACTGCAACCCTGCCT
CCAGGGTTCAAGCGATTCTCTTGCCCTCAGCCTCCCAAGTAGCTGGGATTACAGATTGATGTTTCATGTTCTGGCA
CTACTACAAGATTCTACTCTCTGATGCTACTGACAACGTGGCTTCTCCACAGTCACCAAACCAGGGATGCTATAC
TGGACTTCCCTACTCTCATCTGCTCCAGCCCCCTGACCTTATAGTTGCCAGCTTTCTGGCAATTGACTTTGCC
CATCAATACACAGGATTTAGCATCCAGGGAAGATGTCGGAGCCTCAGATGTTAATTTTCTAATTGAGAATGTTGG
CGCTGTCCGAACCTGGAGACAGGAAAACAAAAAGTCTTTCTCCTGATTACCAAAAAATAAAATACTGACTACC
ATCACTGTGATGAGATTCTATAGTCTCAGGAACCTGAAGTCTTTAAACAACCAGGGACCCTCTGCCCTAGAATA
AGAACATACTAGAAGTCCCTTCTGCTAGGACAACGAGGATCATGGGAGACCACCTGGACCTTCTCCTAGGAGTGG
TGCTCATGGCCGGTCTGTGTTTGAATTCCTTCTGCTCCTTTGATGGCCGAATAGCCTTTTATCGTTTCTGCA
ACCTCACCCAGGTCCCCCAGGTCTCAACACCACTGAGAGGCTCCTGCTGAGCTTCAACTATATCAGGACAGTCA
CTGCTTCATCCTTCCCTTTTCTGGAACAGCTGCAGCTGCTGGAGCTCGGGAGCCAGTATACCCCTTGACTATTG
ACAAGGAGGCCCTTCAGAAACCTGCCCAACCTTAGAATCTTGGACCTGGGAAGTAGTAAGATATACTTCTTGCATC
CAGATGCTTTTTCAGGGACTGTTCCATCTGTTTGAACCTTAGACTGTATTTCTGTGGTCTCTCTGATGCTGTATTGA
AAGATGGTTATTTTCAGAAATTTAAAGGCTTTAACTCGCTTGGATCTATCCAAAAATCAGATTCTGTAGCCTTTACC
TTCATCCTTCATTTGGGAAGTTGAATTCCTTAAAGTCCATAGATTTTTCTCCAACCAAATATTCTTGTATGTG
AACATGAGCTCGAGCCCCTACAAGGGAAAACGCTCTCCTTTTTTAGCCTCGCAGCTAATAGCTTGTATAGCAGAG
TCTCAGTGGACTGGGGAAAATGTATGAACCCATTTCAGAAACATGGTGTGGAGATACTAGATGTTTCTGGAAATG
GCTGGACAGTGGACATCACAGGAACTTTAGCAATGCCATCAGCAAAAGCCAGGCCTTCTCTTTGATTCTTGCCC
ACCACATCATGGGTGCCGGGTTTGGCTTCCATAACATCAAAGATCCTGACCAGAACACATTTGCTGGCCTGGCCA
GAAGTTCAGTGAGACACCTGGATCTTTACATGGGTTTGTCTTCTCCCTGAACCTCACGAGTCTTTGAGACACTCA
AGGATTTGAAGGTTCTGAACCTTGCCCTACAACAAGATAAATAAGATTGCAGATGAAGCATTTTACGGACTTGACA
ACCTCCAAGTTCCTCAATTTGTATATAACCTTCTGGGGGAACCTTACAGTTCGAATTTCTATGGACTACCTAAGG
TAGCCTACATTGATTTGCAAAAGAATCACATTGCAATAATTCAAGACCAAACATTCAAATTCCTGGAAAAATTAC
AGACCTTGGATCTCCGAGACAATGCTCTTACAACCATTCATTTTTATTCCAAGCATACCCGATATCTTCTTGAGTG
GCAATAAACTAGTGACTTTTGCCAAAGATCAACCTTACAGCGAACCTCATCCACTTATCAGAAAACAGGCTAGAAA
ATCTAGATATTCTCTACTTTCTTCTACGGGTACCTCATCTCCAGATTCTCATTTTAAATCAAAATCGCTTCTCCT
CCTGTAGTGGAGATCAAACCCCTTCAGAGAATCCCAGCTTAGAACAGCTTTTCTTGGAGAAAATATGTTGCAAC
TTGCCTGGGAACTGAGCTCTGTTGGGATGTTTTTGAGGGACTTTCTCATCTTCAAGTTCTGTATTTGAATCATA
ACTATCTTAATTCCTTCCACCAGGAGTATTTAGCCATCTGACTGCATTAAGGGGACTAAGCCTCAACTCCAACA
GGCTGACAGTTCTTTCTCACAATGATTTACCTGCTAATTTAGAGATCCTGGACATATCCAGGAACCAGCTCCTAG
CTCCTAATCCTGATGTATTTGTATCACTTAGTGTCTTGATATAACTCATAACAAGTTCAATTTGTGAATGTGAAC
TTAGCACTTTTATCAATTGGCTTAATCACACCAATGTCACTATAGCTGGGCCTCCTGCAGACATATATTGTGTGT
ACCTGACTCGTTCTCTGGGGTTTCCCTCTTCTCTCTTCCACGGAAGGTTGTGATGAAGAGGAAGTCTTAAAGT
CCCTAAAGTTCTCCCTTTTCATTGTATGCACTGTCACTCTGACTCTGTTTCTCATGACCATCCTCACAGTCACAA
AGTTCCGGGGCTTCTGTTTTATCTGTTATAAGACAGCCCAGAGACTGGTGTTCAGGACCATCCCCAGGGCAGAG
AACCTGATATGTACAAATATGATGCCTATTTGTGCTTCAGCAGCAAAGACTTCACATGGGTGCAGAATGCTTTGC
TCAAACACCTGGACACTCAATACAGTGACCAAAACAGATTCAACCTGTGCTTTGAAGAAAGAGACTTTGTCCAG
GAGAAAACCGCATTGCCAATATCCAGGATGCCATCTGGAACAGTAGAAAGATCGTTTGTCTTGTGAGCAGACACT
TCCTTAGAGATGGCTGGTGCCTTGAAGCCTTCAGTTATGCCAGGGCAGGTGCTTATCTGACCTTAACAGTGCTC
TCATCATGGTGGTGGTGGTCTTGTCCCAGTACCAGTTGATGAAACATCAATCCATCAGAGGCTTTGTACAGA
AACAGCAGTATTTGAGGTGGCCTGAGGATCTCCAGGATGTTGGCTGGTTTCTTCATAAACTCTCTCAACAGATAC
TAAAGAAAAGAAAAGAAAAGAAAAGACAATAACATTCCGTTGCAAACCTGTAGCAACCATCTCCTAAATCAAAGG
AGCAATTTCCAACCTTATCTCAAGCCACAAATAACTCTTCACTTTGTATTTGCACCAAGTTATCATTTTGGGGTCC
TCTCTGGAGGTTTTTTTTTTCTTTTTGCTACTATGAAAACAACATAAATCTCTCAATTTTCGTATCAAA

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FIGURE 1564

MGDHLDLLLGVVLMAGPVEGIPSCSFDGRIAFYRFCNLTQVPQVLNTERLLLSFNYYIRTVTASSFPFLEQLQLL
ELGSQYTPLTIDKEAFRNLPNLRILDIGSSKIYFLHPDAFQGLFHLFELRLYFCGLSDAVLKDGYFRNLKALTRL
DLSKNQIRSLYLHPSFGKLNSLKSIDFSSNQIFLVCEHELEPLQGKTLSSFFSLAANSLSRVSVDWGKCMNPFNR
MVLEILDVSGNGWTVDITGNFSNAISKSQAFLILAHHIMGAGFGFHNKDPDQNTFAGLARSSVRHLDLSHGTV
FSLNSRVFETLKDLDKVLNLAYNKINKIADAEAFYGLDNLQVLNLSYNLLGELYSSNFYGLPKVAYIDLQKNHIAII
QDQTFKFLEKLQTLDLRDNALTTIHFIPDIFLSGNKLVTLPKINLTANLIHLSNRLENLDILYFLLRVPHL
QILILNQNRFS SCGDQTPSENPSLEQLFLGENMLQLAWETELCWDVFEGLSHLQVLYLNHNLYLNSLPPGVFSLH
TALRGLSLNSNRRLTVLSHNDLPANLEILDISRNLQLLAPNPDVFSLSVLDITHNKFICECELSTFINWLNHTNVT
IAGPPADIYCVYPDSFSGVSLFSLSTEGCDEEEVLKSLKFSLFIVCTVTLTLFLMTILTVTKFRGFCFICYKTAQ
RLVFKDHPQGTEPDYKYDAYLCFSSKDFTWVQNALLKHLDTQYSDQNRFNLCFEERDFVPGENRIANIQDAIWN
SRKIVCLVSRHFLRDGWCLEAFSYAQGRCLSDNLNSALIMVVVGSLSQYQLMKHQSIIRGFVQKQQYLRWPEDLQDV
GWFLHKLSQQILKKEKEKKKDNNIPLQTVATIS

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FIGURE 1565

CGTTGCTGTGCGAAATGAAGTGC GCGCTGCGACACCTCCCAGCCCACCGAACTCCGCCGCCATTTCTCGCTTGGC
CTAACGGTTCGGCCAATCCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTCGACC
CTTCGCCTCGGCCCCGGCCCAATCCAGGCCCCGGCCCCGCCGCCGCCGCCGCCGCCGCCGGTGCCCTCTCTCCTC
CCTCTTTGTGCGTCTCGCGCCGCCGCCGCCGCCGCCGCGTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTCTG
GGTCCCCCTCCCCCGGGAGGCTTGCGAAGGAGAAGCCGCCGCGCAGAGGAAAAGCAGGTGCCGGTGCCCTGTCCCCGG
GGGCGCCATGGCGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAA
CCAAGACACAATGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATTCCCCCTGGACTTACTCGAGAACA
AGAAAGAGCTTATATAGGTAAATATACGTTCTGCATCCAAATGCACTTTGAGATTGTTACGATTTATTCTGAGCA
AGATCTGCATTTTTTTGAAAGTTTTGAGATTGTAGTTATCTTTTTTGAGATGAGATACTTTCACGACTTTGGTATCA
TCTGTCAGTTTTTTGCCAGTGAGTTCTGCATTTGCAGCTCCTTGTTTTGGTCTGTTGTAAGTGCAGTGTTCTCC
ATGAGTATCAGGAAGGTAGGGTTTCACTTAGGAGTAAGAACAGTCCCCAGTCCAGCAGCCACCCTTTTCAGCTGC
TGTTCAATTGCCAGTTGATGAGGTGAGTGTCACTGCCTCTCTGGACAGGCCCCAGTGGAGAACACCGCAGGTACT
GTAAACCAAGTACTTTTTCACAGCGTGGCCTTTCACCATAATTTTATATTTCTCCCCCTAAATGTGGTCTTTTAC
TTTTTATAGGTACTTTCTG

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FIGURE 1566

MATGANATPLDFPSKKRKRSRWNQDTMEQKTVIPGMPTVIPPGLTREQERAYIGKYTFCIQMHFEIVTIYSEQDL
HFLKV

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FIGURE 1567

AGTTACGTTCTGGGGCGTGGCCGGGAGCACGTTGGCTCCGCCCCCTGGCGGCTGCCTCAGCGGCGGGCGGCGGCGCA
GGCTCAGAGCAGACCCCGCCCGGCGAGGAGGAGGGAGGGCCGCCAGTGTGACATGCTGCTGGAGGAGGTTTCGCG
CCGGCGACCGGCTGAGTGGGGCGGCGGCCGGGGCGACGTGCAGGAGGTGCGCCGCCTTCTGCACCGCGAGCTGG
TGCATCCCGACGCCCTCAACCGCTTCGGCAAGACGGCGCTGCAGGTTCATGATGTTTGGCAGCACCGCCATCGCCC
TGGAGCTGCTGAAGCAAGGTGCCAGCCCCAATGTCCAGGACACCTCCGGTACCAGTCCAGTCCATGACGCAGCCC
GCACTGGATTCTTGGACACCCCTGAAGGTCCTAGTGGAGCACGGGGCTGATGTCAACGTGCCTGATGGCACCGGGG
CACTTCCAATCCATCTGGCAGTTCAAGAGGGTCACACTGCTGTGGTCAGCTTTCTGGCAGCTGAATCTGATCTCC
ATCGCAGGGACGCCAGGGGTCTCACACCCTTGGAGCTGGCACTGCAGAGAGGGGGCTCAGGACCTCGTGGACATCC
TGCAGGGCCACATGGTGGCCCCGCTGTGATCTGGGGTCACCCTCTCCAGCAAGAGAACCCCGTGGGGTTATGTAT
CAGAAGAGAGGGGAAGAAACACTTTCTCTTCTTGTCTTCTCCTGCCCCTGCTGCAGTAGGGGAGGAGCACAGTTT
GTGGCTTATAGGTGTTGGTTTTGGGGGTGTGAGTGTGGGGGACGTTTCTCATTGTCTTCTCACTCCTTTTG
GTGTGTTGGACAGAGAAGGGCTCCTGCAGGCCACAGCCACCTAAACGGTTCAGTTTCTTCTGCGCCTCAGGCTGC
TGGGGCCTCAGACGAGACCCAAGGGCAGAGCATTTAAGAGTGAAGTCATGACCTCCAGGGAGCCTAGAAGCTGGT
GGCCTTGGCCGGCTGTGCTCAGAGACCTGAAGTGTGCACGTTGCTTCAGGCATGGGGGGTGGGGGGAGCGTCCCA
AATCAATAAGAAGGTAGAAATGAGTTATGAGTTATTATATCTGTTGGAAGCTTGTTTTCCAGTCTCTTGTACAG
CGTTTTAAAAGAAATGGATTCTATTTATTATGCTTTATTGAAAAAATGTTGTAATAATTTAATGTTTTTACCCA
TTAAATTAAGACTTGTGCATGATCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1568

MLLEEVRA GDRLSGAAARGDVQEVRRLLHREL VHPDALNRFGKTALQVMMFGSTAIALELLKQGASPNVQDTSGT
SPVHDAARTGFLDTLKVLVEHGADVNVDPDGTGALFIHLAVQEGHTAVVSFLAAESDLHRRDARGLTIPLELALQRG
AQDLVDILQGHMVAPL

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FIGURE 1569

GGGCGGATGGAAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGCGGGCGGGCCGAGAGGGG
CGGCGGGCGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGGCCGAGAGCCGCGTCCACGTTCCCTGCCTCCT
GCTCCCGCCGCCCTGGGGCGCCGCC**ATG**ACGCCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTCACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCCTTGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGCCCCGACCCAGCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGGCCACAGACAGCAGGACCCAGAGGTGCTGCTGGTGAGGGGCCGCGCCGGGGCTGGGTGCCCCCT
GACTGAGGACCAGCAAAACCGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCG
GGAGAATAAGCGGGTGCCCTCACTGCCCTGCTCAACCAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTCAAGGCTCTTCGGGCCAGCTGGAGGCGTGCGCTCTCAAGGGGAGGCTCC
TCAGAGTGCACTGAGATCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCCGATGGCCTCCGGAA
GCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTGAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCCCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACTCCAGTACCTAAAGAAGGAGGTGCAGTGCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTCACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAG**TAG**AGGTCCCGCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCCTCTGTGGGCCACAGTGCCTTGACCCACCACACACACACACACAC
ACACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCTCGCACTGGGTCTCACCTTGACCTTCTTCAGGATTTTATATGTGAAG
AGATTTTTATATAGATTTTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAGCAATTCC
TGGTGGCTGTGTGCCTCCAACCCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCCAGAGGTCTGGCGGAGGCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCCTCTTCTGCCCTACCTCCTACTAACACTTCTGCCCCATTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCCAAAGGTGTTTCTTCTGCTCCCTGAACCTCTTAACCTAATAAAACGTTCCAGCAGCT

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FIGURE 1570

MTPDLLNFKKGWMSILDEPGEPSPSLTTTSTSQWKKHWFVLTDSCLKYYRDSTAEAEDEL DGEIDLR SCTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASFPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFEATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQVMEELQRHHERELQRLQQEKEWL
LAEETAATASAI EAMKKAYQEELSRELSKTRSLQQGPDGLRKQHQS DVEALKRELQVLSEQYSQKCLEIGALMRQ
AEEREHTLRRCQEGQELLRHNQELHGR LSEEIDQLRGFIASQGMGNCGRSNERS SCELEVLLRVKENELQYLK
KEVQCLRDELQMMQDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE

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FIGURE 1571

ATGCGGCATTCCAAAAGAACTCACTGTCCTGATTGGGATAGCAGAGAAAGCTGGGGACATGAAAGCTATCGTGGA
AGTCACAAGCGGAAGAGGAGATCTCATAGTAGCACACAAGAGAACAGGCATTGTAAACCACATCACCAGTTTAAA
GAATCTGATTGTCATTATTTAGAAGCAAGGTCCTTGAATGAGCGAGATTATCGGGACCGGAGATACGTTGACGAA
TACAGGAATGACTACTGTGAAGGATATGTTCCCTAGACATTATCACAGAGACATTGAAAAGCGGGTATCGAATCCAC
TGCAGTAAATCTTCAGTCCGCAGCAGGAGAAGCAGTCCTAAAAGGAAGCGCAATAGACACTGTTCAAGTCATCAG
TCACGTTCTGAAGAGCCACCGAAGGAAAAAGATCCAGGAGTATAGAGGATGATGAGGAGGGTCACCTGATCTGTCAA
AGTGGAGACGTTCTAAGAGCAAGATATGAAATCGTGGACACTTTTGGGTGAAGGAGCCTTTGGCAAAGTTGTAGAG
TGCATTGATCATGGCATGGATGGCATGCATGTAGCAGTGAAAATCGTAAAAAATGTAGGCCGTTACCGTGAAGCA
GCTCGTTTCAGAAATCCAAGTATTAGAGCACTTAAATAGTACTGATCCCAATAGTGTCTTCCGATGTGTCCAGATG
CTAGAATGGTTTGATCATCATGGTCATGTTTGTATTGTGTTTGAAGTACTGGGACTTAGTACTTACGATTTTCATT
AAAGAAAACAGCTTTCTGCCATTTCAAATTGACCACATCAGGCAGATGGCGTATCAGATCTGCCAGTCAATAAAT
TTTTTACATCATAATAAATTAACCCATACAGATCTGAAGCCTGAAAATATTTTGTGTTGTGAAGTCTGACTATGTA
GTCAAATATAATTCTAAATGAAACGTGATGAACGCACACTGAAAAACACAGATATCAAAGTTGTTGACTTTGGA
AGTGCAACGTATGATGATGAACATCACAGTACTTTGGTGTCTACCCGGCACTACAGAGCTCCCGAGGTCATTTTG
GCTTTAGGTTGGTCTCAGCCTTGTGATGTTTGGAGCATAGGTTGCATTCTTATTGAATATTACCTTGGTTTCACA
GTCTTTCAGACTCATGATAGTAAAGAGCACCTGGCAATGATGGAACGAATATTAGGACCCATACCACAACACATG
ATTCAGAAAACAAGAAAACGCAAGTATTTTCACCATAACCAGCTAGATTGGGATGAACACAGTTCTGCTGGTAGA
TATGTTAGGAGACGCTGCAAACCGTTGAAGGAATTTATGCTTTGTCATGATGAAGAACATGAGAACTGTTTGAC
CTGGTTCGAAGAATGTTAGAATATGATCCAACCTCAAAGAATTACCTTGATGAAGCATTGCAGCATCCTTTCTTT
GACTTATTAAGAAAGAAATGAAATGGGAATCAGTGGTCTTACTATATACTTCTCTAGAAGAGATTACTTAAGACT
GTGTCAGTCAACTAAACATTCTAATATTTTGTAAACATTAAATTATTTTGTACAGTTAAGXGTAAATATTGTAT
GTTTTGTATCAATAGCATAATTAACCTGTTAAGCAAGTATGGTCTTGATAATGCATTAGAAAAATTAAATTAAT
TTTTCTTTTTGAAATTACCATTTTTTAAAAACCTTTGAAATATCCTTTGTGTCCAGTGATAAATGTGATTGATCTT
GCCTTTTGTACATGGAGGTCACCTCTGAAGTGATTTTTTTTTGAGTAAAAGGAAATCTTGACTACTTTAAAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 1572

MRHSKRTHCPDWDSRESWGHEsyRGSHKRKRSHSSTQENRHCKPHHQFKESDCHYLEARSLNERDYRDRRYVDE
YRNDYCEGYVPRHYHRDIESGYRIHCSKSSVRSRRSSPKRKRNRHCSSHQSRKSHRRKRSRSIEDDEEGHLICQ
SGDVLRARYEIVDTLGEAGFGKVVECIDHGMDGMHVAVKIVKNVGRYREAAARSEIQVLEHLNSTDPNSVFRCVQM
LEWFDHHGHVCIVFELLGLSTYDFIKENSFLPFQIDHIRQMAYQICQSINFLHHNKLTHTDLPENILFVKSDYV
VKYNSKMKRDERTLKNNDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFT
VFQTHDSKEHLAMMERILGPIQHMIQKTRKRKYFHHNQLDWDEHSSAGRYVRRRCKPLKEFMLCHDEEHEKLF
LVRRMLEYDPTQRITLDEALQHPFFDLLKKK

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FIGURE 1573

GCCTCCAGCTGACCTCTGGCTCCTGTCCTCTGGCTCCACCTGCACCGCCCTGCTCTTCCTAAGGGGCCAGGAAGC
CCCCAGAAGCTCTACCATCGACGTGGGTGGTGGCACCCGGCTCACCTGAGAGCAGAGGGCGTGCAGGGGGCTCA
GTTCTGAGCCCAGCCGGCCACC**ATG**GCACGGCGGTTCCAGGAGGAGCTGGCCGCCCTTCCTCTTCGAGTATGACA
CCCCCGCATGGTGCTGGTGCGTAATAAGAAGGTGGGCGTTATCTTCCGACTGATCCAGCTGGTGGTCTCTGGTCT
ACGTCAATCGGGTGGGTGTTTCTCTATGAGAAGGGCTACCAGACCTCGAGCGGCCCTCATCAGCAGTGTCTCTGTGA
AACTCAAGGGCCTGGCCGTGACCCAGCTCCCTGGCCTCGGCCCCCAGGTCTGGGATGTGGCTGACTACGTCTTCC
CAGCCCAGGGGGACAACCTCCTTCGTGGTCATGACCAATTTTCATCGTGACCCCGAAGCAGACTCAAGGCTACTGCG
CAGAGCACCCAGAAGGGGGCATATGCAAGGAAGACAGTGGCTGTACCCCTGGGAAGGCCAAGAGGAAGGCCCAAG
GCATCCGCACGGGCAAGTGTGTGGCCTTCAACGACACTGTGAAGACGTGTGAGATCTTTGGCTGGTGGCCCGTGG
AGGTGGATGACGACATCCCGCGCCCTGCCCTTCTCCGAGAGGCCGAGAATTCACCTCTTTTCATCAAGAACAGCA
TCAGCTTTCCACGCTTCAAGGTCAACAGGCGCAACCTGGTGGAGGAGGTGAATGCTGCCACATGAAGACCTGCC
TCTTTTACAAGACCCTGCACCCCTGTGCCAGTCTTCCAGCTTGGCTACGTGGTGCAAGAGTCAGGCCAGAAT
TCAGCACCTGGCTGAGAAGGGTGGAGTGGTTGGCATCACCATCGACTGGCACTGTGACCTGGACTGGCACGTAC
GGCACTGCAGACCCATCTATGAGTTCCATGGGCTGTACGAAGAGAAAAATCTCTCCCCAGGCTTCAACTTCAGGT
TTGCCAGGCACTTTGTGGAGAACGGGACCAACTACCGTCACCTCTTCAAGGTGTTTGGGATTGCTTTGACATCC
TGGTGGACGGCAAGGCCGGGAAGTTTGACATCATCCCTACAATGACCACCATCGGCTCTGGAATTGGCATCTTTG
GGGTGGCCACAGTTCTCTGTGACCTGCTGCTGCTTACATCCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGT
TCAAATACGCTGAGGACATGGGGCCAGGGGCGGCTGAGCGTGACCTCGCAGCTACCAGCTCCACCCCTGGGCCTGC
AGGAGAACATGAGGACATCC**TGA**TGCTCGGGCCCCAACTCCTGACTGGGTGCAGCGTGAGGCTTCAGCCTGGAGC
CCTGGTGGGTCCCAGCCAGGGCAGAGGGGCCCTCCCCAGGAAGTCTCCTACCCTCTCAGCCAGGCAGAGAGCAGTT
TGCCAGAAGCTCAGGGTGCATAGTAGGAGAGACCTGTGCAAATCTGAGCTCCGGCTCCGACCCACACACCCTGA
GGGAGGCCTACCCTAGCCTCAGCCGCTCCTGGTGGGGGAATGGCTGGGGGTTGGGCAGGACCCTCCCACACACCT
GCACCCTAGCTTTCGTGCTTCTCTCTCCGGACTCTCAFTATCCAACCCGCTGCCTCCATTTCTCTAGATCTGTGCT
CTCCGATGTGGCAGTCAGTAACCATAGGTGACTAAATTAACTAAAATAAAATAGAATGAAACACAAAATTCAAT
TCCTCGGCTGAACTAGCCACATTTCAACTGCTCAGTAGATACGTGTGGTTAGTGGCTGCCATACTGGACAGCTCG
GGGCATTTTCACTGTCAAAGAAAGTTCTATTAGACAGCCCTGCTTGAGCCCTGTTTCTTCCTGGCTTCGGTTTCC
CTGGGGAACTTATCGACAATGCAAGCTCCTGGGCCACCCCCAGACCTCCTGAACCAAAAGCTCCAGGGCTGGCC
GTATGATCTGTGTGGATGGCAAACTCCCCAGGCCATTCTGGGACCTAAGTTTAAGAAGTGCCGTCTCGAACTTT
CTGACTCTAAGCTCCTGAGCGGGAGTCAGACTTAGCCCTGAGCCTGCACCTCCTGTTTCAAGGTGCAGACACTGAAC
AGGGTCTCAAACACCTTCAGCATGTGTGTTGTGTGCTCACGTGCCACACAGTGTCTCATGCACACAACCCAGTGT
ACACACCACCTACGTGCACACAGCATCCTTCCACACTGTGTATGTGAACAGCTTGGGCCCTGCAAACACAACCAT
CTACACACATCTACACCCCAAGCACACACACATGGTCCGTGCCATGTCACCTCCATAGGGAAAGGCTTCTCTCC
AAGTGTGCCAGGCCAGGACAGCCCTCCCAGCCATGAATCCTTACTCAGCTACCTCGGGTTGGGGTGGGAGCCCCA
GCCAAATCCTGGGCTCCCTGCCTGTGGCTCAGCCCCAGCTCCCAAGGCCTGCCTGGCTCTGTCTGAACAGAAGGT
CTGGGGGAAGCGAGGGGTGGAGTACAATAAAGGGAATGAGGACAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1574

MARRFQEELAAFLFEYDTPRMVLVRNKKVGVI FRLIQLVVLVYVIGWVFLYEKGYQTSSGLISSVSVKLKGLAVT
QLPGLGPQVWDVADYVFPAQGDNSFVVMTNFIVTPKQTQGYCAEHPEGGICKEDSGCTPGKAKRKAQGIRTGKCV
AFNDTVKTCEIFGWCPVEVDDDI PRPALLREAENFTLF IKNSISFPRFKVNRRNLVEEVNAAHMKTCLEFHKTLHP
LCPVFQLGYVVQESGQNFSTLAEKGGVVGITIDWHCDLDWHVRHCRPIYEFHGLYEEKNLSPGFNFRFARHFVEN
GTNYRHLEFKVFGIRFDILVDGKAGKFDI IPTMTTIGSGIGIFGVATVLCDLLLLHILPKRHYYKQKKFKYAEDMG
PGAAERDLAATSSTLGLQENMRTS

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FIGURE 1575

ATGGAGAGGGGGCTGCCGCTCCTCTGCGCCGTGCTCGCCCTCGTCTCGCCCCGGCCGGCGCTTTTCGCAACGAT
GAATGTGGCGATACTATAAAAAATTGAAAGCCCCGGGTACCTTACATCTCCTGGTTATCCTCATTCTTATCACCCA
AGTGAAAAATGCGAATGGCTGATTGAGGCTCCGGACCCATACCAGAGAATTATGATCAACTTCAACCCTCACTTC
GATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTCTTCGATGGAGAAAAATGAAAATGGACATTTTAGG
GGAAAGTTCTGTGGAAAGATAGCCCCCTCCTCCTGTTGTGTGCTTTCAGGGCCATTTCTTTTATCAAATTTGTCTCT
GACTACGAAACACATGGTGCAGGATTTTCCATACGTTATGAAATTTTCAAGAGAGGTCCCTGAATGTTCCCGAAC
TACACAACACCTAGTGGAGTGATAAAGTCCCCCGGATTCCCTGAAAAATATCCCAACAGCCTTGAATGCACTTAT
ATTGTCTTTGCGCCAAAGATGTCAGAGATTATCCTGGAATTTGAAAGCTTTGACCTGGAGCCTGACTCAAATCCT
CCAGGGGGGATGTTCTGTGCTACGACCGGCTAGAAATCTGGGATGGATTCCCTGATGTTGGCCCTCACATTGGG
CGTTACTGTGGACAGAAAACACCAGGTGCAATCCGATCCTCATCGGGCATTCTCTCCATGGTTTTTTTACACCGAC
AGCGCGATAGCAAAAGAAGGTTTCTCAGCAAACCTACAGTGTCTTGCAGAGCAGTGTCTCAGAAGATTTCAAATGT
ATGGAAGCTCTGGGCATGGAATCAGGAGAAATTCATTCTGACCAGATCACAGCTTCTTCCAGTATAGCACCAAC
TGGTCTGCAGAGCGCTCCCGCCTGAACTACCCTGAGAATGGGTGGACTCCCGGAGAGGATTCCCTACCGAGAGTGG
ATACAGGTAGACTTGGGCCTTCTGCGCTTTGTACGGCTGTGCGGACACAGGGCGCCATTTCAAAGAAACCAAG
AAGAAATATTATGTCAAGACTTACAAGATCGACGTTAGCTCCAACGGGGAAGACTGGATCACCATAAAAGAAGGA
AACAAACCTGTTCTCTTTTCAGGGAAACACCAACCCACAGATGTTGTGGTTGCAGTATCCCCAAACCACTGATA
ACTCGATTTGTCCGAATCAAGCCTGCAACTTGGGAACTGGCATATCTATGAGATTTGAAGTATACGGTTGCAAG
ATAACAGATTATCCTTGCTCTGGAATGTTGGGTATGGTGTCTGGACTTATTTCTGACTCCCAGATCACATCATCC
AACCAAGGAGACAGAACTGGATGCCTGAAAACATCCGCTGGTAACCAGTGCCTCTGGCTGGGCACTTCCACCC
GCACCTCATTCTACATCAATGAGTGGCTCCAAATAGACCTGGGGGAGGAGAAGATCGTGAGGGGCATCATCATT
CAGGGTGGGAAGCACCGAGAGAAACAAGGTGTTTCATGAGGAAGTTCAAGATCGGGTACAGCAACAACGGCTCGGAC
TGGAAGATGATCATGGATGACAGCAAAACGCAAGGCGAAGTCTTTTGAGGGCAACAACAACCTATGATACACCTGAG
CTGCGGACTTTTCCAGCTCTCTCCACGCGATTTCATCAGGATCTACCCCGAGAGAGCCACTCATGGCGGACTGGGG
CTCAGAATGGAGCTGCTGGGCTGTGAAGTGGAAAGCCCTACAGCTGGACCGACCACTCCCAACGGGAACCTGGTG
GATGAATGTGATGACGACCAGGCCAACTGCCACAGTGGAACAGGTGATGACTTCCAGCTCACAGGTGGCACCCT
GTGCTGGCCACAGAAAAGCCCACGGTCATAGACAGCACCATAACAATCAGAGTTTCCAACATATGGTTTTAACTGT
GAATTTGGCTGGGGCTCTCACAAGACCTTCTGCCACTGGGAACATGACAATCACGTGCAGCTCAAGTGGAGTGTG
TTGACCAGCAAGACGGGACCCATTGAGGATCACACAGGAGATGGCAACTTCATCTATTCCCAAGCTGACGAAAAT
CAGAAGGGCAAAGTGGCTCGCCTGGTGAGCCCTGTGGTTTATTCCCAGAACTCTGCCCCTGCATGACCTTCTGG
TATCATATGTCTGGGTCCCACGTCCGCACACTCAGGGTCAAACCTGCGCTACCAGAAGCCAGAGGAGTACGATCAG
CTGGTCTGGATGGCCATTGGACACCAAGGTGACCACTGGAAGGAAGGGCGTGTCTTGCTCCACAAGTCTCTGAAA
CTTTATCAGGTGATTTTTCGAGGGCGAAAATCGGAAAAGGAAACCTTGGTGGGATTGCTGTGGATGACATTAGTATT
AATAACCACATTTACAAGAAGATTGTGCAAAACCAGCAGACCTGGATAAAAAGAACCAGAAATTAAAATTGAT
GAAACAGGGAGCACGCCAGGATACGAAGGTGAAGGAGAAGGTGACAAGAACATCTCCAGGAAGCCAGGCAATGTG
TTGAAGACCTTAGAACCCATCCTCATCACCATCATAGCCATGAGCGCCCTGGGGGTCTCCTGGGGGCTGTCTGT
GGGGTCGTGCTGTACTGTGCCTGTTGGCATAATGGGATGTGAGAAAGAACTTGTCTGCCCTGGAGAACTATAAC
TTTGAACCTGTGGATGGTGTGAAGTTGAAAAAAGACAACTGAATACACAGAGTACTTATTCGGAGGCATTGA

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FIGURE 1576

MERGLPLLCAVLALVLAPAGAFRNDECGDTIKIESPGYLTSPGYPHSYHPSEKCEWLIQAPDPYQRIMINFNPHF
DLED RDCKYDYVEVFDGENENGHFRGKFCGKIAPPPVVSSGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQN
YTTPSGVIKSPGFPEKYPNSLECTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIG
RYCGQKTPGRIRSSSGILSMVFYTD SAI AKEGFSANYSVLQSSVSEDFKCMEALGMESGEIHSDQITASSQYSTN
WSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVTAVGTQGAISKETKKKYYVKTYKIDVSSNGEDWITIKEG
NKPVL FQGNTNPTDVVVAVFPKPLITRFVRIK PATWETGISMRFEVYGCKITDYPCSGMLGMVSGLISDSQITSS
NQGDRNWMPENIRLVT SRSGWALPPAPHSYINEWLQIDL GEEKIVRGII IQGKHKRENKVFMRKFKIGYSNNGSD
WKMIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATHGGLGLRMELLGCEVEAPTAGPTTPNGNLV
DECDDDQANCHSGTGDDFQLTG GTTVLATEKPTVIDSTIQSEFPTYGFNCEFGWGSHKTFCHWEHDNHVQLKWSV
LTSKTGPIQDHTGDGNFIYSQADENQKGKVARLVSPVVYSQNSAHCMTFWYHMSGSHVGTLRVKLRYQKPEEYDQ
LVWMAIGHQGDHWKEGRVLLHKS LKLYQVIFEGEIGKGNLGGIAVDDISINNHSQEDCAKPADLDKKNPEIKID
ETGSTPGYEGEGEGDKNISRKPGNVLKTLEPILITIIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENYN
FELVDGVKLKKDKLNTQSTYSEA

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FIGURE 1577

CTGGCATCCCGAGAAGCCAGGAAGCAGTGAGCCCAGGAGTCCTCGGCCAGCCCTGCCTGCCCACCAGGAGGATGA
AGGTCTCCGTGGCTGCCCTCTCCTGCCTCATGCTTGTTACTGCCCTTGGATCCCAGGCCCCGGGTCACAAAAGATG
CAGAGACAGAGTTCATGATGTCAAAGCTTCCATTGGAAAATCCAGTACTTCTGGACAGATTCCATGCTACTAGTG
CTGACTGCTGCATCTCCTACACCCACGAAGCATCCCGTGTTCACTCCTGGAGAGTTACTTTGAAACGAACAGCG
AGTGCTCCAAGCCGGGTGTCATCTTCCTCACCAAGAAGGGGCGACGTTTCTGTGCCAACCCCAAGTGATAAGCAAG
TTCAGGTTTGTCATGAGAATGCTGAAGCTGGACACACGGATCAAGACCAGGAAGAATTGAACTTGTCAAGGTGAAG
GGACACAAGTTGCCAGCCACCAACTTTCTTGCCTCAACTACCTTCCTGAATTATTTTTTTAAGAAGCATTATTTC
TTGTGTTCTGGATTTAGAGCAATTCATCTAATAAACAGTTTCTCACTTTT

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FIGURE 1578

MKVSVAALSCLMLVTALGSQARVTKDAETEFMMSKLPLENPVLLDRFHATSADCCISYTPRSIPCSLLESYFETN
SECSKPGVIFLTKKGRRFCANPSDKQVQVCMRMLKLDTRIKTRKN

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FIGURE 1579

CCCAAGCCTTCGGGTAGGGTGCCTTCAGCCGCTACAAGAGCAGAAGCAGTGGGCATTGGATGGAGCTGAGTACAG
GACCATACAGGCTAATTGCACCGGCACAGTGAAATAAGATTTGCGCGCCTATCATCTGCTAACTGCTACGGACTC
AGGCTCAGAAAGGCCTGCGCTTCACCCAGGAATCGGATATAACATCATCTGGGTACCCATGGCCAGCTGTGACTT
CTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACCTTCAGCCTCCCAGAGGAAGA
TACCAAGCTCAAGATAACCCCTGATTACCCGAGCCCTGCAGTTGGCCCAGCGTCCCGTTTCACTCCTTGCCAGCCC
CTGGACATCACCCACTCGGCTCAAGACCAGGGGAGCGGGGAATGGGAAGGGGCCACTCAAGGGACAGCCCAGAGA
CATCTACCACCAGACCTGGGCCAGATACATTGTGAAGTTCTGGATGCCTATGCTGAGCACAAGTTACAGTTCTG
GGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATACCCCTTCCAGTGCCTGGGCTTCACCCC
TGAACATCAGCGAGACTTCATTGCCCCGTGACCTAGGTCTACCCCTTGCCAACGGTACTCACCACAATGTCCGCCT
ACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAA
GTATGTTTCATGGTATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAAGGGAGACACA
CCACCTGTTCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGTTCCAAGTTCTGGGAGCAGAGTGTGCG
GCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACAAACCTCCTGTACCATGTGGTCGGCTG
GACCGACTGGAACCCATCATTGTAGACATCACCAAGCACACGTTTTTACAAACAGCCCATGTTCTACCACCTTGGC
CACTTCAGCAAGTTTCATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCCGGACGCA
GTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTACC
ATCAAGGATCCTGCTGTGGGCTTCCTGGAGACAATCTCACCTGGCTACTCCATTACACCTACCTGTGGCGTCGC
CAGTGATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACGCT
GTCTGTGACTAAAGAGGGCACAACAGGGCCAGCGTGACGTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGGGT
GACTCACTTTCCCCTCTAGGCGGTGCCAGGGGCTGGAGGCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCCCC
CAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGCTTTGGAACTGGGCCTGGGTCCAGGCCTAGGGT
GAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAAGCTGGGCCCCAA
AACTGGAGACTGTTTGTCTTTCTGAGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTGAGCATCAGGGCGGAA
GCCTTAAAGCAGCAGCGGTGTGCCAGGCACCCAGATGATTCCTATGGCACCAGCCAGGAAAAATGGCAGCTCT
TAAAGGAGAAAATGTTTGAAGCC

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FIGURE 1580

MASCDFSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIHRALQLAQRPVSLASPWTSPTRLKTRGAGNGKGPL
KGQPRDIYHQTWARYIVKFLDAYAEHKLQFWAVTAENEPSAGLLSGYPFQCLGFTPEHQRDFIARDLGPTLANGT
HHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIAVHWYLDFLAPAKATLRETHHLFPNTMLFASEACVGSKF
WEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDWNP SL

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FIGURE 1581

CGCAGCTCAACCTGAGCTACACAGCCAGATGCGAGATGCTTCTCTGCTGATCTGAGTCTGCCTGCAGCATGGACC
TTGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCTAGGGCTTATCCATCCGCAGAGCA
GGGCAGTGGGAGGAGACGCT**ATG**ACCCCCATCCTCACGGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCCGGA
CCCACGTGCAGGCAGGGACCCCTCCCCAAGCCCACACTCTGGGCTGAGCCAGGCTCTGTGATCACCCAGGGGAGTC
CCGTGACCCTCTGGTGTCTAGGGGATCCTGGAGACCCAGGAGTACCGTCTGTATAGAGAAAAGAAAACAGCACCCCT
GGATTACACGGATCCACAGGAGATTGTGAAGAAGGGCCAGTTCCCCATCCCGTCCATCACCTGGGAACACACCG
GGCGGTATCGCTGTTTCTACGGTAGCCACACTGCAGGCTGGTCAGAGCCCAGTGACCCCTGGAGCTGGTGGTGA
CAGGAGCCTACATCAAACCCACCCCTCTCGGCTCTACCCAGCCCTGTGGTGACCTCAGGAGGGAACGTGACCCTCC
ATTGTGTCTCACAGGTGGCATTGTGGCAGCTTATTCTGTGTAAGGAAGGAGAAGATGAACACCCACAATGCCTGA
ACTCACAGCCCCGTACCCATGGGTGGTCCCGGGCCATCTTCTCTGTGGGCCCCGTGAGCCCAGTCTCGCAGGTGGT
CGTACAGGTGCTATGCTTATGACTCGAACTCTCCCCATGTGTGGTCTCTACCCAGTGATCTCCTGGAGCTCCTGG
TCCCAGGAGCAGCTGAGACCCCTCAGCCCACCACAAAACAAGTCCGATTCCAAGGCTGGAGCAGCTAACACCCCTCA
GCCCATCACAAAACAAGACTGCCTCACACCCCCAGGATTACACAGTGGAGAATCTCATCCGCATGGGCATAGCTG
GCTTGGTCTCTGGTGGTCTCGGGATTCTGCTATTTGAGGCTCAGCACAGCCAGAGAAGCCTCT**AG**AGATGCAGCCG
GGAGGTGAACAGCAGAGAGAAGAATGTACCCTTCAGAGTGGTGGAGCCTTGGGAACAGATCTGATGATGCCAGGA
GGTTCCGGGAGACAATTTAGGGCTGATGCTATCTGGACTGTCTGCCAATCATTTTTAGAGGGAGGAATCAGTGTT
GGATTGCAGAGACATTTTCTGGAGTGATCCATGAAGGACCATTAAACATGTGATACCTTTCCCTCTCTATTAATGTT
GACTTCCCTTGGTTGGATCCTCTTCTTTCCCCACCCCCAGACAGACATGAGGCTACATCCCACATGGCAGCGTTG
GGTCCACACCTCTGCACATCTGTGTGCTCTGGTCCATGGTGTGTAACACAGTCTTCTTTATTACTCATTGCCATA
CTCCCTGGTGTGCTTTACTGAGCCTCCATCTCTTCAATTACAGAGTTCCAAACGTGCTTCAGTAATAAATCAATG
GGAGAGTATCGGATTTCAACCAGGAAAAGATAAATCCACCCTGATGCCCTGACACCCTCTCTGAACCCTACGAGC
CCTTCCCTCCTTCTCACATGCTACCTGTGCAGCTTCTCCTTAGATCATTGTGTAACCATCACTGCCATCCTGTTT
CACACATGGTCATCACCCCTACACCCATTACAGCAGCCACTCCCCATTCCCTCTTCCCTCCAGCACCTGCTAACCC
AAATGTGCTTTCTGTCTCTACGGATTTGCCATTCTGTCTGAAAACATTTCAATCTCCTTTGACCTGTGAGCTCC
TCACTTCGAGACTTCTGCTTTCCAGGCAGAACCAAGTACACCACGTCAAAAGCAATGATAGGCATTTGCAGT
GTGTTGGTGATCCACGAAAGGAAAAATCACGGAAGCAGGATAGAAATCCAGCTGCAGACAAGACCTCAGGTTCGATG
AATCTTGACAAGCAGTTGAGCTGTTTTTTTTCTACTACCTAGGACAGTCAGGCAGAAGTATGCAAAATGACTGGG
GCTGATTCTTTTCTGAATTGTCGCAAAACAGCAAGAGGACTTGAGTCCTAGCATTAAAGAGTTCAACATGTCTAGG
TCCAAGACCACTGTTGTGTTTGAAGGATGTAAAACCCTGCTGCATAGGATGGAATATTTGGAGGGAGGATCCTGA
AAAACATGAGGGATCAAATAGTCCTCAACTTTCTAGGACAAAGGGAGCAGCTATTTGCCATCTACCCTCCAGAAT
AAAGAAATCTTATCATTACCATCTACCCCTCTAGAATAAAGAAATCTTATCATTGCCATCTACCCTGTAGAATA
AAGAAATCTTATCATTACCGTCTACCCCTCTAGAGTAAACAAATCTTATCATTACCATCTACCCTCTAGAATAA
AGAAATCTTATCATTGCCATCTACCCCTCTAGAATAAAGAAATCT

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FIGURE 1582

MTPILTVLICLGLSLGPRTHVQAGTLFKPTLWAEPGSVITQGSPVTLWCQGILETQEYRLYREKKTAPWITRIPQ
EIVKKGQFPIPSITWEHTGRYRCFYGSHTAGWSEPSDPLELVVTGAYIKPTLSALPSPVVTSGGNVTLHCVSQVA
FGSFILCKEGEDEHPQCLNSQPRTHGWSRAIFSVGPVSPSRRWSYRCYAYDSNSPHVWSLPSDLLELLVPGAAET
LSPPQNKSDSKAGAANTLSPSQNKTAHPQDYTVENLIRMGIAGLVVLVVLGILLFEAQHSQRS

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FIGURE 1583

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGAGAGATTCTGGGAGCCAAACACTCCATTG
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG
CATTGCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG
GCACTTCAGGGAGTGCTTTTATATTCCCAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA
TGAAAATGCCATCTATTTCTTGGAATTTCTCTTGCCCTTCAACCAAAAATGGTTAAAACATATCTTGAAGAAGA
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGGAATTACAGGAGATGAGAG
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA
TTACATCTTCTAATGTTATCATTTTTTAAGCCTACGCCAAAACGATATAAAAATTCTTCTAGAAGCCAAAGCCTT
CCCTTCTGATCATTATGCTATTGAGTCACAACTACAACCTTCACGGACTTAACATTGAAGAAAAGTATGCGGATGAT
AAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT
TGCAGTGATCCTGTTTCAAGTGGGGTGCATTTTTACACTGGACAGCACTTTAATATTCTGCCATCACAAAAGCTGG
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCCTTCAT
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA
GATGGATAACAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG
TTCCTTGCATGCTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT
AATTACTCCGTCTCATGTAGAGGAGCGGGGTGCCAGCTAACAATAACATTTTCTGTTCCAAACAAAGATGTTTT
CCAAGAACTAGAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAAATGGCATTGAGTGGCTCCAGTTCTCTCT
CTATAATTCTTTCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGAAGTCTGAGAAAACAAAAA
TTAGCAGTGTTTTCTAGAACAACCTTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTTCAAGTATTATTCGATTT
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACCTAACAATAAATAATATACCTTAC

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FIGURE 1584

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRFCFYIPKIQDLPPVDLSLVNKDENAIYFLGNS
LGLQPKMVKTYLEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANKEKEIALMNALTVDLHLLMLSFFK
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP
ALVGWFGHELSTRFKMDNKLQLIPGVCGRISNPPILLVCSLHASLEIFKQATMKALRKKSVELLTGYLEYLIKHN
YGKDKAATKKPVVNIITPSHVEERGQQLTITFSVPNKDVFQELEKRGVVCDKRNPNGIRVAPVPLYNFHDVYKF
TNLLTSILDSAETKN

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FIGURE 1585

TTTCCCGAGATCACCAAG**ATG**CTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGGACCAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGCAGCGCTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCAC
GGGCGAAACGCCACGCTGGGCACTCTGGACTTCTACATGGCCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCACCCCGTGGACGAGAGGCTGGGGGT
CCACCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGTGCCCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGCCACCCCCAGGACACAGGG
CAGACGAAACCCACCCCCAGCACACGGCAGGACCCCCAAATTACTCACTACGGGGGGCTGTGCCA**TAG**GCCACA
CAGGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCCGCATGCCTGTACCCAGATGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAACAAGTAAAATTTGTGTTTTAAAA

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FIGURE 1586

MLGAEWSKLQPTKQRYLDEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGDC
DGFSTFDVPIFTEEFLDQNKAREAE LRRLRKMNVAFEEQNAVLRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGLLHGPA SRSHRARPRPAREAHRPHQGNPGFGRQRAPVRS GRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSHFAPLGAPAPLKLNFCSIPLAFNLPSPLNPEKALAARYTQKNLTAE GAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYSLRGAVP

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FIGURE 1587

GGCACGAGGAACAACCTATTTGCAAAGTTGGCGCAAACATTCTGCCTGACAGGACCATGGACACAGGTTGTAGA
GATAGAGATGGCTCTGGCTGTGCATTTCAGCAGATTCTGTAGATAGAATTAATAGGACTTGGATGGGATTGTGGTG
AGAGAAAGTGAAATGAAAGATAAGTTCTAGTTTGGAAAGTTTAAACAACCTGAATGTTTAAACTCAAATAGACACAA
AATATTGGAAGAGTGGCAGGTTTGGGAGGATGAGACAATCAACTGTTTGGTTGAGCCACGTTAGGTTTGAAATGT
CTACGGGATCCCGTGGGGAGAGGTTATATCAGACTGGAGCACCAGAGAGAGGCCAAGGCTGATAGTTTAGATGAA
AAGAGAGCATGATATTTTAAAGCCCTGAGACTGGATAATATCACCTATAGAAAGACTATATAGAGATAAGAGAGGT
GGGGAACAAGTAAAGCTGCGGGACACTCCTAAATTTAGAGTCAAATTTAGAGCAGAAAATACTAGCAAAGGGGA
CTGAAAAGCGGTGGCCAATTGAGCTTCAAATGCAAGTGAAAGTGTGTTGTGTGTACATTTATCATCTCATGGCAC
AGGAAAAACGTGATTTAAGGAGAAGGAAGCGATCCAATGGGAAGAAGAGATCCAATGGATCCTCTATCAGGAAGA
TATTGAGATAAGAACCAATATGGATTTGCACCCACTGCATTTGCAGCCTTGAGGTCATAAGCATCCTCAGGAAAA
TGCACCAGGTGCTGCTGGCAAGATGGAAACCAACTTCTCCACTCCTCTGAATGAATATGAAGAAGTGTCTATGA
GTCTGCTGGCTACACTGTTCTGCGGATCCTCCCATTTGGTGGTGCTTGGGGTCACCTTTGTCTCGGGGTCTGGG
CAATGGGCTTGTGATCTGGGTGGCTGGATTCCGGATGACACGCACAGTCACCACCATCTGTTACCTGAACCTGGC
CCTGGCTGACTTTTCTTTACGGCCACATTACCATTCTCATTGTCTCCATGGCCATGGGAGAAAAATGGCCTTT
TGGCTGGTTCTGTGTAAGTTAATTCACATCGTGGTGGACATCAACCTCTTTGGAAGTGTCTTCTTGATTGGTTT
CATTGCACTGGACCGCTGCATTTGTGTCTGCATCCAGTCTGGGCCCAGAACCACCGCACTGTGAGTCTGGCCAT
GAAGGTGATCGTCGGACCTTGGATTCTTGCTCTAGTCCTTACCTTGCCAGTTTTCTCTTTTTGACTACAGTAAC
TATTCCAAATGGGGACACATACTGTACTTTCAACTTTGCATCCTGGGGTGGCACCCTGAGGAGAGGCTGAAGGT
GGCCATTACCATGCTGACAGCCAGAGGGATTATCCGTTTGTCTATTGGCTTTAGCTTGCCGATGTCATTGTTGC
CATCTGCTATGGGCTCATTGCAGCCAAGATCCACAAAAAGGGCATGATTAAATCCAGCCGTCCCTTACGGGTCTCT
CACTGCTGTGGTGGCTTCTTTCTTCATCTGTTGGTTTCCCTTTCAACTGGTTGCCCTTCTGGGCACCGTCTGGCT
CAAAGAGATGTTGTTCTATGGCAAGTACAAAAATCATTGACATCCTGGTTAACCCAACGAGCTCCCTGGCCTTCTT
CAACAGCTGCCTCAACCCCATGCTTTACGTCTTTGTGGGCCAAGACTTCCGAGAGAGACTGATCCACTCCCTGCC
CACCAGTCTGGAGAGGGCCCTGTCTGAGGACTCAGCCCCAACTAATGACACGGCTGCCAATTCTGCTTCACCTCC
TGCAGAGACTGAGTTACAGGCAATGTGAGGATGGGGTCAGGGATATTTTGAGTTCTGTTTCATCCTACCCTAATGC
CAGTTCCAGCTTCATCTACCCTTGAGTCATATTGAGGCATTCAAGGATGCACAGCTCAAGTATTTATTCAGGAAA
AATGCTTTTGTGTCCCTGATTTGGGGCTAAGAAATAGACAGTCAGGCTACTAAAATATTAGTGTTATTTTTTGT
TTTTGACTTCTGCCTATACCCTGGGGTAAGTGGAGTTGGGAAATACAAGAAGAGAAAGACCAGTGGGGATTTGTA
AGACTTAGATGAGATAGCGCATAATAAGGGGAAGACTTTAAAGTATAAAGTAAAATGTTTGCTGTAGGTTTTTTA
TAGCTATTAAAAAAATCAGATTATGGAAGTTTTCTTCTATTTTTAGTTTGCTAAGAGTTTTCTGTTTCTTTTC
TTACATCATGAGTGGACTTTGCATTTTATCAAATGCATTTTCTACATGTATTAAGATGGTCATATTATCTTCTT
CTTTTATGTAAATCATTATAAATAATGTTTCAATTAAGTTCTGAATGTTAACTACTCTTGAATTCCTGGAATAAC
CACACTTAGTCCTGATGTACTTTAAATATTTATATCTCACAGGAGTTGGTTAGAATTTCTGTGTTTATGTTTATA
TACTGTTATTTCACTTTTTCTACTATCCTTGCTAAGTTTTCATAGAAAATAAGGAACAAAGAGAACTTGTAATG
GTCTCTGAAAAGGAATTGAGAAGTAATTCCTCTGATTCTGTTTTCTGGTGTATATCTTTATTAAATATTCAGAA
AAATTC

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FIGURE 1588

METNFSTPLNEYEEVSYESAGYTVLRILPLVVLGVTFVLGVLGNGLVIWVAGFRMTRTVTTICYLNLALADFSFT
ATLPFLIVSMAMGEKWPFGWFLCKLIHIVVDINLFGSVFLIGFIALDRCICVLHPVWAQNHRTVSLAMKVIVGPW
ILALVLTLPVFLFLT TTVTIPNGDTYCTFN FASWGGTPEERLKVAITMLTARGIIRFVIGFSLPMSIVAICYGLIA
AKIHKKGMIKSSRPLRVLTAVVASFFICWFPPQLVALLGTVWLKEMLFYGKYKIIDILVNPTSSLAFFNSCLNPM
LYVFVGQDFRERLIHSLPTSLERALSEDSAPTNDTAANSASPPAETELQAM

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FIGURE 1589

CGGAGCGAGGCAGCGCGCCCGGCTCCCGCGCC**ATG**GGGCGGCTGGTGGCTGTGGGCTTGCTGGGGATCGCGCTGG
CGCTCCTGGGCGAGAGGCTTCTGGCACTCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTC
CACACTGCCACCTGATTAAAGGAATTGAAGCTGGCTCTGAAGATATTGACATACTTCCCAATGGTCTGGCTTTTT
TTAGTGTGGGTCTAAAATTTCCAGGACTCCACAGCTTTGCACCAGATAAGCCTGGAGGAATACTAATGATGGATC
TAAAAGAAGAAAAACCAAGGGCACGGGAATTAAGAATCAGTCGTGGGTTTTGATTTGGCCTCATTCAATCCACATG
GCATCAGCACTTTTCATAGACAACGATGACACAGTTTATCTCTTTGTTGTAAACCACCCAGAATTCAAGAATACAG
TGGAATTTTTTAAATTTGAAGAAGCAGAAAATTCTCTGTTGCATCTGAAAACAGTCAAACATGAGCTTCTTCCAA
GTGTGAATGACATCAGCTGTTGGACCGGCACATTTCTATGCCACAAATGACCACTACTTCTCTGATCCTTTCT
TAAAGTATTTAGAAACATACTTGAACCTTACACTGGGCAAATGTTGTTTACTACAGTCCAAATGAAGTTAAAGTGG
TAGCAGAAGGATTTGATTGAGCAATGGGATCAATATTTACCTGATGATAAGTATATCTATGTTGCTGACATAT
TGGCTCATGAAATTCATGTTTTGGAAAAACACACTAATATGAATTTAACTCAGTTGAAGGTACTTGAGCTGGATA
CACTGGTGGATAATTTATCTATTGATCCTTCCTCGGGGGACATCTGGGTAGTCTGTCTATCCTAATGGCCAGAAGC
TCTTCGTGTATGACCCGAACAATCCTCCCTCGTCAGAGGTTCTCCGCATCCAGAACATTCTATCTGAGAAGCCTA
CAGTGACTACAGTTTATGCCAACAATGGGTCTGTTCTCCAAGGAAGTTCTGTAGCCTCAGTGTATGATGGGAAGC
TGCTCATAGGCACCTTTATACCACAGAGCCTTGATTGTGAACCT**TAA**ATTGTACTTTTGGCATGAAAGTGCGATA
ACTTAACAATTAATTTTCTATGAAATTGCTAATTCTGAGGGAATTTAACCAGCAACATTGACCCAGAAATGTATG
GCATGTGTAGTTAATTTTATTCCAGTAAGGAACGGCCCTTTTAGTTCTTAGAGCACTTTTAACAAAAAAGGAAAA
TGAACAGGTTCTTTAAAATGCCAAGCAAGGGACAGAAAAGAAAGCTGCTTTTGAATAAAGTGAATACATTTTGCA
CAAAGTAAGCCTCACCTTTGCCTTCCAAGTCCAGAACATGGATTCCACTGAAATAGAGTGAATTATATTTTCTT
AAAAATGTGAGTGACCTCACTTCTGGCACTGTGACTACTATGGCTGTTTAGAACTACTGATAATAACGTATTTTGA
TGTTTTGTACTTACATCTTTGTTTACCATTAAAAAGTTGGAGTTATATTAAAGACTAACTAAAAATCCCCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1590

MGRLVAVGLLGIALALLGERLLALRNRLKASREVESVDLPHCHLIKIEAGSEIDILPNGLAFFSVGLKFPGLH
SFAPDKPGGILMMDLKEEKPRARELRISRGFDLASFNPHGISTFIDNDDTVYLFVNVHPEFKNTVEIFKFEEAEN
SLLHLKTVKHELLPSVNDITAVGPAHFYATNDHYFSDPFLKYLETYLNLHWANVVYYSPNEVKVVAEGFDSANGI
NISPDDKYIYVADILAHEIHVLEKHTNMNLTQLKVLELDTLVDNLSIDPSSGDIWVVCHPNGQKLFVYDPNNPPS
SEVLRIQNILSEKPTVTTVYANNGSVLQGSSVASVYDGKLLIGTLYHRALYCEL

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FIGURE 1591

CAGTATCCCTCCTGACAAAATAACAAAAATCCTGTTAGCCAAATAATCAGCCACATTCATATTTACCGTCAAAG
TTTTTATCCTCATTTTTACAGCAGTGGAGAGCGATTGCCCCGGGTCCCACGTTAGGAAGAGAGAGAACTGGGATTT
GCACCCAGGCAATCTGGGGACAGAGCTGTGATCACAACTCCATGAGTCAGGGCCGAGCCAGCCCCTTACCACCA
GCCGGCCGCGCCCCGGGAAGGAAGTTTGTGGCGGAGGAGGTTTCGTACGGGAGGAGGGGGAGGCGCCACGCATCT
GGGGCTGACTCGCTCTTTTCGAAAACGTCTGGGAGGAGTCCCTGGGGCCACAAAACCTGCCTCCTTCCTGAGGCCA
GAAGGAGAGAAGACGTGCAGGGACCCCGCGCACAGGAGCTGCCCTCGCGACATGGGTCACCCGCCGCTGCTGCCG
CTGCTGCTGCTGCTCCACACCTGCGTCCCAGCCTCTTGGGGCCTGCGGTGCATGCAGTGTAAGACCAACGGGGAT
TGCCGTGTGGAAGAGTGCGCCCTGGGACAGGACCTCTGCAGGACCACGATCGTGCCTTGTGGGAAGAAGGAGAA
GAGCTGGAGCTGGTGGAGAAAAGCTGTACCCACTCAGAGAAGACCAACAGGACCCTGAGCTATCGGACTGGCTTG
AAGATCACCAGCCTTACCGAGGTTGTGTGTGGGTAGACTTGTGCAACCAGGGCAACTCTGGCCGGGCTGTCACC
TATTCCCGAAGCCGTTACCTCGAATGCATTTCTGTGGCTCATCAGACATGAGCTGTGAGAGGGGCCGGCACCAG
AGCCTGCAGTGCCGCAGCCCTGAAGAACAGTGCCTGGATGTGGTGACCCACTGGATCCAGGAAGGTGAAGAAGGG
CGTCCAAAGGATGACCGCCACCTCCGTGGCTGTGGCTACCTTCCCGGCTGCCCGGGCTCCAATGGTTTCCACAAC
AACGACACCTTCCACTTCTGAAATGCTGCAACACCACCAAATGCAACGAGGGCCCAATCCTGGAGCTTGAAAAT
CTGCCGCAGAATGGCCGCCAGTGTTACAGCTGCAAGGGGAACAGCACCCATGGATGCTCCTCTGAAGAGACTTTC
CTCATTGACTGCCGAGGCCCCATGAATCAATGTCTGGTAGCCACCGGCACTCACGAACCGAAAAACCAAAGCTAT
ATGGTAAGAGGCTGTGCAACCGCCTCAATGTGCCAACATGCCACCTGGGTGACGCCTTCAGCATGAACCACATT
GATGTCTCCTGCTGTACTAAAAGTGGCTGTAAACCACCCAGACCTGGATGTCCAGTACCGCAGTGGGGCTGCTCCT
CAGCCTGGCCCTGCCCATCTCAGCCTCACCATCACCTGCTAATGACTGCCAGACTGTGGGGAGGCACTCTCCTC
TGGACCTTAAACCTGAAATCCCCCTCTCTGCCCTGGCTGGATCCGGGGGACCCCTTTGCCCTTCCCTCGGCTCCCA
GCCCTACAGACTTGCTGTGTGACCTCAGGCCAGTGTGCCGACCTCTCTGGGCCTCAGTTTTCCAGCTATGAAAA
CAGCTATCTCACAAAGTTGTGTGAAGCAGAAGAGAAAAAGCTGGAGGAAGGCCGTGGGCAATGGGAGAGCTCTTGT
TATTATTAATATTGTTGCCGCTGTTGTGTTGTTGTTATTAATTAATATTTCATATTATTTATTTTATACTTACATA
AAGATTTTGTACCAGTGG

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FIGURE 1592

MGHPPLLPLLLLLHTCVPASWGLRCMQCKTNGDCRVEECALGQDLCRTTIVRLWEEGEELELVEKSCTHSEKTNR
TLSYRTGLKITSLTEVVCGLDLCNQGNSGRAVTYSRSRYLECISCGSSDMSCERGRHQSLQCRSPREEQCLDVVTH
WIQEGEEGRPKDDRHLRGCGYLPGCPGSNGFHNNDTFHFLKCCNTTKCNEGPILELENLPQNGRQCYSCCKGNSTH
GCSSEETFLIDCRGPMNQCLVATGTHEPKNQSYMVRGCATASMCQHAHLGDFAFSMNHIDVSCCTKSGCNHPDLDV
QYRSGAAPQPGPAHLSTITLLMTARLWGGTLLWT

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FIGURE 1593

GGATCTTAACACCACGCCTTGAGCAAGTCGCAAGAGCGGGAGGACACAGACCAGGAACCGAGAAGGGACAAGCAC
ATGGAAGCCAGCCCAGCATCCGGGCCCAGACACTTGATGGATCCACACATATTTCACTTCCAACCTTTAACAATGGC
ATTGGAAGGCATAAGACCTACCTGTGCTACGAAGTGGAGCGCCTGGACAATGGCACCTCGGTCAAGATGGACCAG
CACAGGGGGCTTTCTACACAACCAGGCTAAGAATCTTCTCTGTGGCTTTTACGGCCGCCATGCGGAGCTGCGCTTC
TTGGACCTGGTTCCTTCTTTGCGAGTTGGACCCGGCCCCAGATCTACAGGGTCACTTGGTTTCATCTCCTGGAGCCCC
TGCTTCTCCTGGGGCTGTGCCGGGGAAGTGCCTGCGTTCCCTTCAGGAGAACACACACGTGAGACTGCGCATCTTC
GCTGCCCCGATCTATGATTACGACCCCCTATATAAGGAGGCGCTGCAAATGCTGCGGGATGCTGGGGCCCCAAGTC
TCCATCATGACCTACGATGAATTTAAGCACTGCTGGGACACCTTTGTGGACCACCAGGGATGTCCCTTCCAGCCC
TGGGATGGACTAGATGAGCACAGCCAAGCCCTGAGTGGGAGGCTGCGGGCCATTCTCCAGAATCAGGGAACT**TGA**

AGGATGGGCCTCAGTCTCTAAGGAAGGCAGAGACCTGGGTTGAGCAGCAGAATAAAAGATCTTCTTCCAAGAAAT
GCAAACAGACCGTTCACCACCATCTCCAGCTGCTCACAGACGCCAGCAAAGCAGTATGCTCCCGATCAAGTAGAT
TTTTAAAAAATCAGAGTGGGCCGGGCGCGGCTGCACGCCTGTAATCCCAGCACTTTGGAGGCCAAGGCGGGTGA
TCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAACCCCTGTCTCTACTAAAAATACAAAAAATTA
GCCAGGGGTGGTGCGGGCGCCTGTAGTCCCAGCTACTCTGGAGGCTGAGGCAGGAGAGTACGTGAACCCGGGAGG
CAGAGCTTGCGGTGAGCCGAGATTGCGCTACTGCACTCCAGCCTGGGCGACAGXACCAGACTCCATCTCAAAAAA
AAAAAAAACCAGACTGAATTAATTTTAACTGAAAATTTCTCTTATGTTCCAAGGTACACAATAGGTAAGATTATG
CTCAATATTCTCAGAATAATTTTCAATGTATTAATGAAATGAAATGATAATTTGGCTTCATATCTAGACTAACAC
AAAATTAAGAATCTTCCATAATTGCTTTTGCTCAGTAACTGTGTCATGAATTGCAAGAGTTTCCACAAACACT

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FIGURE 1594

MEASPASGPRHLMDPHIFTSNFNNGIGRHKTYLCYEVERLDNGTSVKMDQHRGFLHNQAKNLLCGFYGRHAELRF
LDLVPSLQLDPAQIYRVTFISWSPCFSWGCAGEVRAFLQENTHVRLRIFAARIYDYDPLYKEALQMLRDAGAQV
SIMTYDEFKHCWDTFVDHQGCPFQPWDGLDEHSQALSGRLRAILQNQGN

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FIGURE 1595

GGCACGAGGCACAGGCGATTGGTTTTAGTGGTAGGTGTGTGGGGATCTGTTCTGGTCATCTGGATGCTGGTCATC
GGTGTGCAGTATTGATCAGGACCTGCAAACCCAAAAGCTTATGGGAGCTGGCACGTCACAAAAAGAAAAAACC
AGCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAGGAACAGCAACAATTCCGGAACATTTTCAAGCAGATAGCAG
GAGATGACATGGAGATCTGTGCAGATGAGCTCAAGAAGGTCCTTAACACAGTCGTGAACAAACACAAGGACCTGA
AGACACACGGGTTCACACTGGAGTCCTGCCGTAGCATGATTGCGCTCATGGATACAGATGGCTCTGGAAAAGCTCA
ACCTGCAGGAGTTCCACCACCTCTGGAACAAGATTAAGGCCTGGCAGAAAATTTTCAAACACTATGACACAGACC
AGTCCGGCACCATCAACAGCTACGAGATGCGAAATGCAGTCAACGACGCAGGATTCCACCTCAACAACCAGCTCT
ATGACATCATTACCATGCGGTACGCAGACAAACACATGAACATCGACTTTGACAGTTTCATCTGCTGCTTCGTTA
GGCTGGAGGGCATGTTTCAGAGCTTTTCATGCATTTGACAAGGATGGAGATGGTATCATCAAGCTCAACGTTCTGG
AGTGGCTGCAGCTCACCATGTATGCCTTGAACCAGGCTGGCCTCATCCAAAGCCATGCAGGATCACTCAGGATTTT
AGTTTCACCCCTCTATTTTCAAAGCCATTTACCTCAAAGGACCCAGCAGCTACACCCCTACAGGCTTCCAGGCACC
TCATCAGTCATGTTCCCTCCTCCATTTTACCCCTACCCATCCTTGATCGGTCATGCCTAGCCTGACCCCTTAGTA
AAGCAATGAGGTAGGAAGAACAACCCCTTGTCCTTTTGCCATGTGGAGGAAAGTGCCTGCCTCTGGTCCGAGCCG
CCTCGGTTCTGAAGCGAGTGCTCCTGCTTACCTTGCTCTAGGCTGTCTGCAGAAGCACCTGCCGGTGGCACTCAG
CACCTCCTTGCTGCTAGAGCCCTCCATCACCTTCACGCTGTCCCACCATGGGCCAGGAACCAAACCAGCACTGGGT
TCTACTGCTGTGGGGTAACTAACTCAGTGAATAGGGCTGGTTACTTTGGGCTGTCCAACCTCATAAGTTTGGCT
GCATTTTGAAAAAAGCTGATCTAAATAAAGGCATGTGTATGGCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1596

MEICADELKKVLNTVVNKHKDLKTHGFTLESCRSMIALMDTDGSGKLNLQEFHHLWNKIKAWQKIFKHYDTDQSG
TINSYEMRNAVNDAGFHLNNQLYDIITMRYADKHMNIDFDSFICCFVRLEGMFRAFHFADKDGDIKLVLEWL
QLTMYA

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FIGURE 1597

AACAGGCGTGACGCCAGTTCTAAACTTGAAACAAAAACAAACTTCAAAGTACACCAAAATAGAACCTCCTTAAAG
CATAAATCTCACGGAGGGTCTCGGCCGCCAGTGGAAGGAGCCACCGCCCCGCCCCGACC**ATG**CGCGAGGAGCTG
GTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACCACACGGCCGACCTGTGCCGGGAGAAG
CTGGTGGTGCGACGGGGCCAGCCCTTCTGGCTGACCTTGCACTTTGAGGGCCGCAACTACCAGGCCAGTGTAGAC
AGTCTCACCTTCAGTGTCTGTGACCGGCCCCAGCCCCCTAGCCAGGAGGCCGGGACCAAGGCCCGTTTTCCTAAGA
GATGCTGTGGAGGAGGGTGACTGGACAGCCACCGTGGTGGACCAGCAAGACTGCACCTCTCGCTGCAGCTCACC
ACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCCTCCACTGGCTACCAGGGATCCAGCTTT
GTGCTGGGCCACTTCATTTTGCTCTTCAACGCCTGGTGGCCAGCGGATGCTGTGTACCTGGACTCGGAAGAGGAG
CGGCAGGAGTATGTCCTCACCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAGTTCATCAAGAACATACCTTGG
AATTTTGGGCAGTTTCAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGATGTCAACCCCAAGTTCCTGAAG
AACGCCGGCCGTGACTGCTCCCGGCGCAGCAGCCCCGTCTACGTGGGCCGGGTGGGTAGTGGCATGGTCAACTGC
AACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACCTACGGGGACGGCGTCAGCCCCATGTCCTGGATC
GGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCGTCAAGTATGGCCAGTGTGGGTCTTC
GCCGCCGTGGCCTGCACAGTGTGAGGTGCCCTAGGCATCCCTACCCGCGTCTGTGACCAACTACAACCTCGGCCCAT
GACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATCCAGGGTGACAAGAGCGAGATG
ATCTGGAACCTTCCACTGCTGGGTGGAGTGTGGATGACCAGGCCGGACCTGCAGCCGGGGTACGAGGGCTGGCAG
GCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGAACGTACTGCTGTGGCCAGTTCCAGTTCTGTGCCATCAAG
GAGGGCGACCTGAGCACCAAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAATGCCGACGTGGTAGACTGGATC
CAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGGCTGAAGATCAGCACTAAGAGC
GTGGGCCGAGACGAGCGGGAGGATATACCCACACCTACAAATACCCAGAGGGGTCTCAGAGGAGAGGGAGGCC
TTCACAAGGGCGAACCACCTGAACAAACTGGCCGAGAAGGAGGAGACAGGGATGGCCATGCGGATCCGTGTGGGC
CAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCAACAACACCGCTGAGGAGTACGTCTGC
CGCCTCCTGCTCTGTGCCCGCACCGTACGCTACAATGGGATCTTGGGGCCGAGTGTGGCACCAAGTACCTGCTC
AACCTAACCCCTGGAGCCTTTCTCTGAGAAGAGCGTTCCCTCTTTGCATCCTCTATGAGAAATACCGTGACTGCCTT
ACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGGAGCCAGTTATCAACAGCTACCTGCTGGCTGAGAGG
GACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCAAGCAGAAACGCAAGCTGGTGGCT
GAGGTGTCCCTGCAGAACCCGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACTGTGGAGGGGGCCGGCCTGACT
GAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTTAAGGTGAGAATGGACCTCGTG
CCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTTCGAGAGCGACAAGCTGAAGGCTGTGAAGGGCTTCCGG
AATGTCATCATTGGCCCCGCC**TA**AGGGACCCCTGCTCCCAGCCTGCTGAGAGCCCCACCTTGATCCCAATCCTT
ATCCCAAGCTAGTGAGCAAAATATGCCCCCTATTGGGGCCCCAGACCCAGGGCAGGGTGGGCAGCCTATGGGGC
TCTCGAAATGGAATGTGCCCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTCCCCACTCACCCCTTTGCTGT
GAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTGTGCTGACTGGGGCTGGGGTGAAGAGAGGAAAGACC
TACATTCCTCTCCTGCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCATATTGTTTGATCTACTTCATAG
CTCCTTGAGCAGGCAAAAAAGGGACAGCATGCCCTTGCTGGATCAGGAATCCAGCTCCCTAGACTGCATCCCG
TACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACACCCAGAGCTGGGTGGGGACAGTGATAGGCC
CAAGGTCCCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAACCTCACCATTGTGAAGCACCTAC
TATGTGCTGGGTGCCTCCCACTTGCTGGGGCTCACGGGGCCTCCAACCCATTAAATCACCATGGGAAACTGTT
GTGGGCGTGTCTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGCCCCCTCCACACCAGTGGCCTCGT
GGTTATAAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCTCTGACTCTGAGTCCACTGCTCCA
TTTATAACCCAGCCTGACCTGAGACTGTGCGCAGAGGCTGTCTGGGGCCTTTATCAAAAAAGACTCAGCCAAGA
CAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGTTTCAAGTCCCACGTCTGGCCAGCG
ACTGCCCTTCTCCTCTCTGGGCCTTTGTTTCTTGTGGTTCAGAGGAGTGATTGAACCTGCTCATCTCCAAGGATC
CTCTCCACTCCATGTTTGCAATACACAATTCC

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FIGURE 1598

MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLTLHFEGRNYQASVDSLTF SVVTGPAPSQEAGTKA
RFPLRDAVEEGDWTATVVDQQDCTLSLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLFNAWCPADAVYL
DSEEEERQEYVLTQQGFIYQGS AKFIKNIPWNFGQFQDGILDICLILLDVNPKFLKNAGRDCSRRSSPVYVGRVGS
GMVNCNDDQGVLLGRWDNNYGDGVSPMSWIGSV DILRRWKNHGCQRVKYQCWVF AAVACTVLRCLGIPTRVVTN
YNSAHDQNSNLLIEYFRNEFG EIQGDKSEMIWNFHCWVESWMTRPDLQPGYEGWQALDPTPQEKSEGTYCCGPVP
VRAIKEGDLSTKYDAPFVFAE VNADVVDWIQQDDGSVHKSINRSLIVGLKISTKSVGRDEREDITHYKYPEGSS
EEREAFTRANHLNKLAEKEETGMAMRIRVGQSMNMGSDFDVFAHITNNTAE EYVCRLLLCARTVSYNGILGPECG
TKYLLNLTLEPFSEKSVPLC ILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQK
RKLVAEVS LQNPLPVALEGCTFTVEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLVPLHMGLHKL VVNFESDKLKA
VKGFRNVIIGPA

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FIGURE 1599

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCCGGGGG
TCCGTGTCTGTCTCGGTTGGCCGGACCCGGGCCCCGAGCCCCGAGCAGTAGCCGGCGCCATGTTCGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGA
GGCAGAAAAATCTAACCTTGCATATGATATTGTGTCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCACTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCCTTGTTTCTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGCCATA
TGGAATCTATAAGCAGGATCTTCCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCACTTCGTAGTGTTTTGGAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATTCTCCAGCTGAAGAAGGGTCAAGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAA
AGTTTCGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

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FIGURE 1600

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFGHGRAF
SDPFVEAEKSNLAYDIVQWPTGLTGIKVTYMEEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPRLEEKPRNVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFCCEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVRFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRNVHGFVSSASLVEVHKSEENEEPMTDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAESEEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFSVEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERPNYLKN

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FIGURE 1601

GGCACGAGGCTTCCCCGGTGCAGACACCCGGCGAAGCCCACCCGGTTTTCCCAGCGGCATTTCCGATGACAGCTT
CGGGGCTACGTGTCCTGTGCTGTGCGGAGACGCACAGGAAGCAAAGTTTGTGAGAAGCCTTGGGGGCGACTTTGCC
TTGGGCACCCGCATTTGTGCGTCTGCGAGGTGCCTCGGTGTGCGCGGAGCTAGTTTTCCAGTTTTCCCGGGCCCCCT
CCCTTCTCCGAGCCCCCTCTAGCGATTTGTTTAGGAAAAGTGATGACATGAACTAGTAGTGGAATCGCAGCGCC
GCTCCCCGCCCTGGGGAGGGAGGGGAGCCCCGGAGAGCCTGCCGGTGGGAGCTGGAAGCAGGCTCCCGGCTGAGC
GCCCCAGCCCGAAAGGCAGGGTCTGGGTGCGGGAAGAGGGCTCGGAGCTGCCTTCCTGCTGCCTTGGGGCCGCC
AGATGAGGGAACAGCCCCGATTTGCCTGGTTCTGATTCTCCAGGCTGTGCTGGTTGTGGAATGCAAACGCCAGCAC
ATAATGGAAACAGGACCTGAAGACCCTTCCAGCATGCCAGAGGAAAGTTCCCCCAGGCGGACCCCGCAGAGCATT
CCCTACCAGGACCTCCCTCACCTGGTCAATGCAGACGGACAGTACCTCTTCTGCAGGTACTGGAAACCCACAGGC
ACACCCAAGGCCCTCATCTTTGTGTCCCATGGAGCCGGAGAGCACAGTGGCCGCTATGAAGAGCTGGCTCGGATG
CTGATGGGGCTGGACCTGCTGGTGTTCGCCCACGACCATGTTGGCCACGGACAGAGCGAAGGGGAGAGGATGGTA
GTGTCTGACTTCCACGTTTTTCGTCAGGGATGTGTTGCAGCATGTGGATTCCATGCAGAAAGACTACCTGGGCTT
CCTGTCTTCCTTCTGGGCCACTCCATGGGAGGCGCCATCGCCATCCTCACGGCCGCAGAGAGGCCGGGCCACTTC
GCCGGCATGGTACTCATTTCGCCTCTGGTTCTTGCCAATCCTGAATCTGCAACAACTTTCAAGGTCCTTGCTGCG
AAAGTGCTCAACCTTGTGCTGCCAAACTTGTCCCTCGGGCCCATCGACTCCAGCGTGCTCTCTCGGAATAAGACA
GAGGTCGACATTTATAACTCAGACCCCCCTGATCTGCCGGGCAGGGCTGAAGGTGTGCTTCGGCATCCAACCTGCTG
AATGCCGTCTCACGGGTGGAGCGCGCCCTCCCCAAGCTGACTGTGCCCTTCCTGCTGCTCCAGGGCTCTGCCGAT
CGCCTATGTGACAGCAAAGGGGCCTACCTGCTCATGGAGTTAGCCAAGAGCCAGGACAAGACTCTCAAGATTTAT
GAAGGTGCCTACCATGTTCTCCACAAGGAGCTTCTGAAGTCACCAACTCCGTCTTCCATGAAATAAACATGTGG
GTCTCTCAAAGGACAGCCACGGCAGGAAGTGCCTCCCCACCCTGAATGCATTGGCCGGTGCCCGGCTCATGGTCT
GGGGGATGCAGGCAGGGGAAGGGCAGAGATGGCTTCTCAGATATGGCTTGCAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

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FIGURE 1602

METGPEDPSSMPEESSPRRT PQSIPYQDLPHLVNADGQYLCRYWKPTGTPKALIFVSHGAGEHSGRYEELARML
MGLDLLVFAHDHVGHGQSEGERMVVSDFHVFVRDVLQHVD SMQKDYPGLPVFLLGHSMGGAIAILTAAERP GHFA
GMVLISPLVLANPESATTFKVLA AKVLNLVLPNLSLGPIDSSVLSRNKTEVDIYNSDPLICRAGLKVCFGIQLLN
AVSRVERALPKLTVPFLLLQGSADRLCDSKGAYLLMELAKSQDKTLKIYEGAYHVLHKELPEVTNSVFHEINMWV
SQRTATAGTASPP

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FIGURE 1603

GGCACGAGGGACGACTCCACGCTCGCTTGCCCTGATTCTCTCCGCCCTGCACTTTTGCCAGCTGAAGGTCCAGGG
AGAAGAGCAACCTGGCCACAGCCTGCAGGTGGCCAGCAGCAGGCCGAGGAGCTGCCGCAGGAGCGGGAGAAGC
TGCAGGTTGCCCAGGAGGAGCTGCAGCGCCAGCGGGACCGGCTGGAGGAAGAGCAGGAAGAGGCGGTGCAGAAATG
GCGCACGGGTTTCGCCGGGAGCTTGAGCGCAGCCATAGACAACCTAGAGCAGCTGGAAGGGAAGCGCTCAGTCTTG
CCAAGGAGCTGGTGGAGGTGAGGGAGGCGCTGAGCCGCGCCACGCTGCAACGGGACATGCTGCAGGCCGAGAAGA
CCGAGGTGGCCGAGGCGCTGACCAAGGCTGAGGCTGGCCGCATGGAGCTCGAGCTCTCCGTGACCAAGTTGAGGG
CAGAGGAGGCCTCCCTGCAGGACTCCCTGTCCAAGCTGAGCGCCCTCAATGAGAGCCTTGCTCAGGACAAGTTGG
ATCTGAACTGCCTTGTACCCAGCTGGAGGAAGAAAAGGCCACGCTGCAGGGCCGGCAGCGGCAGGCGGAGCAGG
AGGCCACAGTGGCGCCGGCAGAGCAGGAGTGGCTGGAGGAGCTGTGGTTGGAGCAGGAGGTGGCACGGCAGGGCC
TGGAGGGCTCCCTATGAGTGGCGGAGCAGGCCAGGAGGCGCTGGAGCAACAGCTCCCCACACTGCACCATGAGC
TCAGTTGGCTGCAGGAGCAGCTAGCACAGGGGATCATGTTTCGGACCCCCAGGCCAGCCCAGTCTGCTCCTTGCC
ACTTTCACGGCCCTGGCGTGTCCCCGTATAGTCCTTATCAGTCCCTTGTATTTACCTGGTCACCTCCATCTCT
GAGGGTATGGGGGCCAGATGGCTCTTGCTGCCCTGATGTTTTGGGGGTCTGCCTGGGCCCCCTCCTGGTGTGTCA
CACGCGTCCAGTCCCTGGCCCCCTAGGAGGCAGCATGGCGGGAGCTGGAGGCCGAGCGGGCCCCAGCTGCAGAGTCA
GCTGCAGCGTGAGCAGGAGGAGCTGCTGGCCCCGGCGGAAGGCTGAGAAGGAACAGCTGAGTGAGGAGATTGCTGC
CCTGCAGCAGGAGCATGACGAGGGCCTCCTCCTGGCCGAGAGCGAGAAGCAGCAGGCCTTGTCTCTGAAGGAGTC
TGAGAAGATGGCGCTGTGAGAGAAGTTGATGGGTACACGGCACAGCCTGGCCACCATCTCCCTGGAGATGGAGCG
GCAGAAACCAGATGCCCAGAGCCGGCAGGAGCAGGACCGGGTAGGCCTGCCGTGCTAGGGAGGCTTGCGGAGCAG
GAGCGCCCTCTTTCCACCGAGCTATCCCGCGGTTTCCAGCATCCCATCTGGCGGACTCCTCTTCCTCTCTCTTCT
CCTACTCTGGGTCTTCTATCCTGGTGTTCCTTGAATGCCTATCTTCCTTTTGTGCCTCGGAACCTCTCACGCCTG
CCACAAGTTACTCTTTTCCTTGGTAGTTCTGAACTTTAAATAAGGTAATGCCTGTAAGAATGCCATAAATGCTCA
ATAATTGTCATCTGTTATTATTTTCATCAGTAACATCATCTGAATCATCAGTATTGTCTGCTTTTAAACAGCTGCA
TTTTTCATTGTCCAAATATAGTCACATACATTTGACCATTTTATAATTATTGAATAATAAATTCGTTCTGCTATT
TTACAATGAAAAATAATGCTGCAGAGAGCATTTTTTGACATGTATCGTGGCAGATGTAGGCCAGAGGCTCTTCTT
TATCCATCCTATGGCCAACCTATGAATGTATACACGTTTAAATGAGATTTTGCCAGCAATCAAAGCCTTCAGGGAA
AATGTCCCTAGCTCTTTACTACATCAGATCAAGGACTCTGGATAATTGGCATAACATCCTGGAATAGCTGAAACA
GAGATATTATTCTCTGCTGTCTCTGTTGTCTTTGTCTTTTCACGTCTTAATAAAAGTGCTGGTGACAAGAGTGT
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1604

MLQAEKTEVAEALTKAEAGRMELELSVTKLRAEEASLQDSLSKLSALNESLAQDKLDLNCLVTQLEEEKATLQGR
QRQAEQEATVAPAEQEWLEELWLEQEVARQGLEGSL

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FIGURE 1605

GGCACGAGGCCAAGAGCTACGCGGCGGCGGCGGAGCGCAGGCCTCGTGCCGTTACGGCCATCACGGCGGCCGCAG
TGGCGTCCTGGAGCCCTCCTCAGTGCTGAAGCTGCTGAAAAGATGGCAGAGAAGTGGTGGTAGTAGCCAAATTTG
ATTATGTGGCCCAACAAGAACAAGAGTTGGACATCAAGAAGAATGAGAGATTATGGCTTCTGGATGATTCTAAGT
CCTGGTGGCGAGTTCGAAATTCCATGAATAAAACAGGTTTTGTGCCTTCTAACTATGTGGAAAGGAAAAACAGTG
CTCGGAAAAGCATCTATTGTGAAAAACCTAAAGGATACCTTAGGCATTGGAAAAGTGAAAAGAAAACCTAGTGTC
CAGATTCTGCATCTCCTGCTGATGATAGTTTTGTTGACCCAGGGGAACGTCTCTATGACCTCAACATGCCCCGCTT
ATGTGAAATTTAACTACATGGCTGAGAGAGAGGATGAATTATCATTGATAAAGGGGACAAAGGTGATCGTCAATG
AGAAATGCAGTGATGGGTGGTGGCGTGGTAGCTACAATGGACAAGTTGGATGGTTCCCTTCAAACCTATGTAACCTG
AAGAAGGTGACAGTCCTTTGGGTGACCATGTGGGTTCTCTGTCTAGAGAAATTAGCAGCAGTCGTCAATAACCTAA
ATACTGGGCAAGTGTTGCATGTGGTACAGGCTCTTTACCCATTTCAGCTCATCTAATGATGAAGAACTTAATTTTCG
AGAAAGGAGATGTAATGGATGTTATTGAAAAACCTGAAAATGACCCAGAGTGGTGGAAATGCAGGAAGATCAATG
GTATGGTTGGTCTAGTACCAAAAAACTATGTTACCGTTATGCAGAATAATCCATTAACCTTCAGGTTTGGAACCAT
CACCTCCACAGTGTGATTACATTAGGCCTTCACTCACTGGAAAAGTTTGCTGGCAATCCTTGGTATTATGGCAAAG
TCACCAGGCATCAAGCAGAAATGGCATTAAATGAAAGAGGACATGAAGGGGATTTCTTCATTCTGTGATAGTGAAT
CTTCGCCAAATGATTTCTCAGTATCACTAAAAGCACAAAGGGAAAAACAAGCATTTTAAAGTCCAACATAAAGAGA
CTGTCTACTGCATTGGGCAGCGTAAATTCAGCACCATGGAAGAAGTTGTAGAACATTACAAAAAGGCACCAATTT
TTACAAGTGAACAAGGAGAAAAATTATATCTTGTCAAGCATTTATCATGATACTGCTGACCAGAAGTACTGCTG
TGTAGCTGTAATTTGTCATGTAATTGAAGACTGAGAAAATGTTGGGTCCAGTCGTGCTTGATTGGAAATTGTTGT
TTCTAAATCTATATGAGAATTGACAATAAGTATTTTTATTATAACTCAGCCCATACATATATACTATGTATGCAG
TGCATCTGCATAGAACAGTTCCTTATCCTTGGCCTTCTGTTTTATTGTTTTTTTTCTTTGCTGTTTTCCCTTTGCT
TCTAATATTACAGTTTTGTATTTGTAAACAAAAATCAAATAATGCATATCAGAATCTTTATATGGAAGAAATCC
TTTATTGCCTTTCTTTGTTTCCTTGTAAGGCACCTGTTCTGTTATGGTTTTTTCATTATATAAAATTATTATA
TCTATATATGACATATGCTAAAATTTCTTGAGAGTGTTAATCTTTCTGTGACTAAATAGCAATAATAAGTGGA
AAATTAGAAATTATTTCCAGGTATTATATTTGTCACAGGCCATTGTAAATACCAAGTATATTGTGTCTGCCATAA
TTTTTAAAAATACATTCATTGTCTTCAGTCATACAGCAAGACACATGAGACATAGATTAGAAAACATGTTGTACA
ATTTTAATTTACAACCTGTTGGAAATAAAAAATCACTTAATTTTTTTTCCAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1606

MAEEVVVAKFDYVAQQEQELDIKKNERLWLLDDSKSWWRVRNSMNKTGFVPSNYVERKNSARKASIVKNLKDTL
GIGKVKRKPSVPDSASPADDSFVDPGERLYDLNMPAYVKFNYMAEREDELSLIKGTKVIVMEKCSDGWWRGSYNG
QVGWFPSNYVTEEGDSPLGDHVGSLSEKLAAVVNNLNTGQVLHVQALYPFSSSNDEELNFEKGDVMDVIEKPEN
DPEWWKCRKINGMVGLVPKNYVTVMQNNPLTSGLEPSPPQCDYIRPSLTGKFAGNPWYYGKVTRHQAEMALNERG
HEGDFLIRDSESSPNDFSVSLKAQGKKNHFKVQLKETVYCIGQRKFSTMEELVEHYKKAPIFTSEQGEKLYLVKH
LS

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FIGURE 1607

ACCCGGAGCGGGAAG**AT**GGCGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCCAGCCGGCACCCAATGCCTGGCAGGTCATCAAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCCGCCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACAGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTTCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTTACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTTCCAGTCATTTCGTGGTCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTTCATCGACCTCTGGAAGATCACCAAGGTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCTCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTTCGCCTTTGTCTATCAAGATGCCCGTTATGTACCGGATCGGC
TGCTGCGGGACGATGTGGTTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCCAACCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCACAGCAGCAGGGGCC
CTCACGCCACACCTGCACCCACCACGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCTCCAAAGCCAGCAGAGGACAAGAAAAAGGAT**TAG**

TCGAGACTGGTCTCTACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCCTCCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTACAGGGCCAGCGTGTGACGT
AGGGGCCGGGGCAGGCCAGGGTTTGTGGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCCAGCACCCTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTGGGCGGG
GGTGGGGCCGGGCCCCCTACGGGATGCCCACGGCCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACTCCCC
CTCCTAGACCGCCGCCCTTTAACACAGTCTGGATTTAATAAATTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAA

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FIGURE 1608

MAAAQEADGARS AVVAAGGGSSGQVTSNGSIGRDPPAETQPQNPPAQ PAPNAWQVIKGVLFRI FIIWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTLMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPRQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKF DAVSGDYYP I IYFNDYWNLQKDYY PINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTIIVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVS VFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFP LLGCYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFITMTP
QLFINYKLKSV AHL PWRMLTYKALNTFIDDLFAFVIKMPV MYRIGCLRDDVVFFIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVPTAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

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FIGURE 1609A

CTTCTCCCTCCCGCTCGCTTCTTCTCACGCCGGGAGCAGGCTCGCGCCTCGCACCGCTGCCCCGCGAGCAGCTC
CTCTTCTCCCGAGGCGCGCGGGGCGCCCCGCGAGCCCCGCGGCTGAGACCCGCGAGCCTGGAGGAGGGCTGTCC
GGGGCTTTGGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACA**ATG**ATTCTGTATTGACATCAAA
AAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAACAAATG
TGAAGTTAGTCATAGGCGAGCCTTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCACTGTGGAAGAA
GTATATTTCTCAGTTTAAAAATCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTTAAATGCATCA
GTTTGATGATGCCGTCAATCACTGTGGCAATACTTATCGTTGTTACAGTTGCCTTTGTTTCAGGAATATCGTTC
AGAAAAATCTCTTGAAAGAATTGAGTAAACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATTGGAGCA
TACACTTGCCCGAGACTTGTTCCAGGTGATACAGTTTGCTTTCTGTTGGGGATAGAGTTTCTGCTGACTTACG
CTTGTTTGGGCTGTGGATCTTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCTTGTTCTAAGGTGAC
AGCTCCTCAGCCAGCTGCAACTAATGGAGATCTTGATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAG
ATGTGGCAAAGCAAAGGGTGTGTGTCATTGGAACAGGAGAAAAATTCTGAATTTGGGGAGGTTTTTAAATGATGCA
AGCAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTCTCTTTACTCCTT
TGGTATAATAGGAATCATCATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAAATGTTTACTATTAGTGT
AAGTTTGGCTGTAGCAGCAATTCTGAAGGTCTCCCCATTGTGGTGCAGTGACGCTAGCTCTTGGTGTATGAG
AATGGTGAAGAAAAGGGCCATTGTGAAAAAGCTGCCTATTGTTGAACTCTGGGCTGCTGTAATGTGATTGTTTC
AGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCAGATGGTCTGCATGCTGA
GGTTACTGGAGTTGGCTATAATCAATTTGGGGAAGTGATTGTTGATGGTGATGTTGTTTCATGGATTCTATAACCC
AGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAACAATACTCTAATGGGGAA
GCCAACAGAAGGGGCCTTAATTGCTCTTGCAATGAAGATGGGTCTTGATGGACTTCAACAAGACTACATCAGAAA
AGCTGAATACCCTTTTAGCTCTGAGCAAAAGTGATGGCTGTTAAGTGTGTACACCGAACACAGCAGGACAGACC
AGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAAGTACTGTACTACATACCAGAGCAAAAGGGCAGAC
CTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACTCAGAGT
TCTTGCTTTGGCTTCTGGTCTGAACTGGGACAGCTGACATTTCTTGGCTTGGTGGGAATCATTGATCCACCTAG
AACTGGTGTGAAAGAAGCTGTTACAACACTCATTGCCTCAGGAGTATCAATAAAAATGATTACTGGAGATTACACA
GGAGACTGCAGTTGCAATCGCCAGTCGTCTGGGATTGTATTCCAAAACCTCCAGTCAGTCTCAGGAGAAGAAAT
AGATGCAATGGATGTTTCAGCAGCTTTTACAAAATAGTACCAAAGGTTGCAGTATTTTACAGAGCTAGCCCAAGGCA
CAAGATGAAAATTATTAAGTCGCTACAGAAGAACGGTTTCAGTTGTAGCCATGACAGGAGATGGAGTAAATGATGC
AGTTGCTCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTGCAAAGAGGCAGCAGA
CATGATCCTAGTGGATGATGATTTTCAAAACCATAATGTCTGCAATCGAAGAGGGTAAAGGGATTATATAATACAT
TAAAAATTTCTGTTAGATTCCAGCTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACATTAATGAA
CTTTCCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATTATGGATGGACCCCCAGCTCAGAGCCT
TGGAGTAGAACCAGTGGATAAAGATGTCATTTCGTAAACCTCCTCGCAACTGGAAGACAGCATTTTGACTAAAAA
CTTGATACTTAAATACTTGTTCATCAATAATCATTTGTTTGTGGGACTTTGTTTGTCTTCTGGCGTGAGCTACG
AGACAATGTGATTACACCTCGAGACACAACAATGACCTTCACATGCTTTGTGTTTTTTGACATGTTCAATGCACT
AAGTTCCAGATCCCAGACCAAGTCTGTGTTTGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGCAGTTCT
TGGATCCATCATGGGACAATTACTAGTTATTTACTTTCTCCTCCGCTTCAGAAGGTTTTTCAGACTGAGAGCCTAAG
CATACTGGATCTGTTGTTTCTTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAAGGTTGA
AAGGAGCAGGGAAAAGATCCAGAAGCATGTTAGTTGACATCATCATCTTTTCTTGAAGTAT**TCAT**GCATATTGCA
TTATTTTATTTGCAAACCTAGGAATTGCAGTCTGAGGATCATTTAGAAGGGCAAGTTCAAGAGGATATGAAGATTT
GAGAACTTTTTAACTATTTCATTGACTAAAAATGAACATTAATGTTAAAGACTTAAGACTTTAACCTGCTGGCAGT
CCCAAAATGAAATTATGCAACTTTGATATCATATTCTTGATTTAAATTGGCTTTTGTGATTGAGTGAACTTTAT
AAAGCATATGGTCAGTTATTTAATTAATAAAGGCAAAAACCTGAACCACCTTCTGCACTTAAAGAAGTCTACAGTAC
AAATACACTATCTATCTTAGATAGATATATTTTTTTTTTATTTTTTAAATATTGTACTATTTATGGTGGTGGGGCTT
TCTTACTAATACACAAATAAATTTAATCATTTCAAAGGCATTCTATTGGTTTAGAAGTTGATTCCCAGGAGTGC
CATATTTTACGCTACTGTATTTCTTTTTCTTGTAATGTAAGCAGCTCAGATACCATGTGCTATCATTTTTTGTATC
AAGTTTTTTGCACAGGATGTGACCACTGTCAGATCACTGTTCTTTTCTTTTCTTTTGTGATTGAAAAGCCTATAC
TACAATTTGAAGTAAATTTTTGTTTTCTTAGTAAGTGTAATGGTTGCTTTATTTTTATTTTAAAAAGGTATGT

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FIGURE 1609B

CTTTGGTTTGGCAGAATTCATGCAGGGCTATCAAGTGGTGTCTAGGGTAACAGTGTCCATAATTAACGCTTAGT
CATAGAGTCAAAAACATTTAAGACTGATTGGGTTGAAGTTTATAATAAATTATATTAACATGTCTTCCTTTTGA
GGTAAAGATATATACTTTGTCAAATATCATTTTGTCAFCCTCTAAATATAAATCCAAATACCTCAGCTAAGTAAT
TGTATTTTATTATTTTACTGTTATGTATGTTTTTAATCATATTTCTTAGGAAGTATAGGCTACTGGACTTAGAA
TAAAAAGTCCCCAAACCCAAACAAATGGTTTATGAACCAGAGTATATGTGGAAGATTCTTTGCTGGTCTTGCTCT
GTGTGCATCTGAAGCTTCTTTGGCCTAGATTTTAGCACAAACCTGAGTATATCTCTTCTACTTTTCATCATGTGTT
CTGTACCTTCTTTTTGTTTCATTGGGCATGCTAGGGAAATAGGTGGATTTTGTGTGTAATGCCATCAGTTTTTAT
GAAAGCTTGATGAGGTATAGGTCATTTGTTTTGAGTATGTGGGCCAGAAATTTAAAATTAGAAATTTGTTTTTCT
GTTGAGTATATAAACA AAAAATTGGTCCCAATTCTAACAGGTTTAATCCTTCTTGAAGCCAATAAGTTTTATCTTT
TATAATCTGTCAGGATGAACCACTCCTTAGCTTTTATCCAATATTAACTGCAAGTGTTAGCACTGAAATATTGT
CATTGATAGGGAAATATCTATTCTTTGAGTCATTGTTACTGAGGCAGTTGAGTGTAAGGAGCTGGCTGCAGTTT
ATTCTACTTAACCCTTTAAGGCTGAATTGTCAAATGTACATTGTTCCATGTCGTTAGATGGAACATGGAAGCCAT
TGTCTAATCAACTCTATCATTAGTGACTTGATGTCTCATACCTTAATTTTGTAAATGATTTTTATTCTCTGTTACA
AAGACTTGAAATACGTATTAAATGCACGTTAATGTTTTGCTTTGCATTTTAGGTTTCAGATTATGACTTGATTGAA
ATAAATGTGCCTATACATTCAATTTGCTTTGTACTATAAAAATAAAAATGATTTCTTAAGTTAAAAAAAAAAAAAA
AAA

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FIGURE 1610

MIPVLTSKKASELPVSEVASILQADLQNGLNKCEVSHRRAFHGWNEFDISEDEPLWKKYISQFKNPLIMLLLSA
VISVLMHQFDDAVSITVAILIVVTVAFVQEYRSEKSLEELSKLVPPECHCVREGKLEHTLARDLVPGDTVCLSVG
DRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAQPAAATNGDLASRSNIAFMGTLVRCGKAKGVVIGTGENSEF
GEVFKMMQAEAEAPKTPLQKSMDDLKGQLSFYSFGIIGIIMLVGWLLGKDILEMFTISVSLAVAAIPEGLPIVVTV
TLALGVMRMVKKRAIVKKLPIVETLGCCNVICSDKTGTLTKNEMTVTHIFTSDGLHAEVTGVGYNQFGEVIVDGD
VVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTGALIALAMKMGLDGLQQDYIRKAEYFSSSEQKWMVAVKCV
HRTQQDRPEICFMKGAYEQVIKYCTTYQSKGQTLTLTQQQRDVYQQEKARMGSAGLRVLALASGPFLGQLTFLGL
VGIIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAV
FYRASPRHKMKIIKSLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIMSAIEE
GKGIYNNIKNFVRFQLSTISIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPAQSLGVEFVDKDVIRKPPRNW
KDSILTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRDTTMTFTCFVFFDMFNALSSRSQTKSVFEIGLCSN
RMFCYAVLGSIMGQLLVYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEI IKKVERSREKI QKHSVSTSSSF
LEV

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FIGURE 1611

CCTCCTACACCTTCAGCACCCCTGCCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGTAGCCCTCTTGCA
AAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGTAGAATCACCAAG
AAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCCCACAGGTCCTGGA
ATGGCACCAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTTCGTCGGGTTATTGCACAGCGATTA
ATGCAATCAAAGCAAACCATACTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTTTTGTTGGTACGG
AAAGAACTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAACGTTTCAGCTTTG
GCATGTTTAAAAGTTCCCGAAGCAAATTCTTCTTGGATGGACACAGTTATAAGACAAAATCATGTTGTTGATGTC
AGTGTTCGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAAATGCACATATAAAAGGAGTGGAAC
ATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACAT

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FIGURE 1612A

ATAAAAGGGGGCTGAGGAAATACCGGACACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGCTCGGGGA
CCTCCACGCACCGCGGCTAGCGCCGACAACCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGTACCGGCGGGCT
TCGAAAACCGCAGTCTCCGGCGACCCCGAACTCCGCTCCGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCC
GAGAGCCAAG**ATG**CCGGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCACATTACAGC
GCCTCCCTCCAGGGTCTTGCAGAATGGAGGAGATAAGTTGGAGACGATGCCCTCTACTTGGAAGACGACATTTCG
CCCTGATATAAAAGATGATATATATGACCCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGT
CTGGAGAAACATCATCCTTATGTCTCTGCTACACTTGGGAGCCCTGTATGGGATCACTTTGATTCTACCTGCAA
GTTCTACACCTGGCTTTGGGGGGTATTCTACTATTTTGTGTCAGTGCCCTGGGCATAACAGCAGGAGCTCATCGTCT
GTGGAGCCACCGCTCTTACAAAGCTCGGCTGCCCTACGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCA
GAATGATGTCTATGAATGGGCTCGTGACCACCGTGCCACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAA
TTCCCGACGTGGCTTTTTCTTCTCTCACGTGGGTGGCTGCTTGTGCGCAAACACCCAGCTGTCAAAGAGAAGGG
GAGTACGCTAGACTTGTCTGACCTAGAAGCTGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCTGGCTT
GCTGCTGATGTGCTTCATCCTGCCCACGCTTGTGCCCTGGTATTTCTGGGGTGAACTTTTCAAACAGTGTGTT
CGTTGCCACTTTCTTGCGATATGCTGTGGTGCTTAATGCCACCTGGCTGGTGAACAGTGTGCCACCTCTTCGG
ATATCGTCCTTATGACAAGAACATTAGCCCCGGGAGAATATCCTGGTTTCACTTGGAGCTGTGGGTGAGGGCTT
CCACAACCTACCACCCTCTTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATT
CTTCATTGATTGCATGGCCGCCCTCGGTCTGGCCTATGACCGGAAGAAAGTCTCCAAGGCCGCATCTTGCCAG
GATTAAGAAAGAACCGGAGATGGAACTACAAGAGTGGCT**TGAG**TTTGGGGTCCCTCAGGTTTCTTTTTCAAACACC
AGCCAGGCAGAGGTTTTAATGTCTGTTTATTAATACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGTTA
ACCCATTCCAGTACAGTATTCTTTTTAAATTCAAAAGTATTGAAAGCCAACAACCTCTGCCTTTATGATGCTAAGC
TGATATTATTTCTTCTCTTATCCTCTCTCTCTTCTAGGCCCATTTGTCTCTCTTTTCACTTTATTGCTATCGCCCT
CCTTTCCCTTATTGCTCTCCAGGCAAGCAGCTGGTCAGTCTTTGCTCAGTGTCCAGCTTCAAAGCCTAGACAAC
CTTTCTGTAGCCTAAACGAATGGTCTTTGCTCCAGATAACTCTCTTTCTTGAGCTGTTGTGAGCTTTGAAGTA
GGTGGCTTGAGCTAGAGATAAAACAGAATCTTCTGGGTAGTCCCCGTGTTGATTATCTTCAGCCCAGGCTTTTGCT
AGATGGAATGGAAAAGCAACTTCATTTGACACAAAGCTTCTAAAGCAGGTAAATTGTGCGGGGAGAGAGTTAGCA
TGTATGAATGTAAGGATGAGGGAAGCGAAGCAAGAGGAACCTCTCGCCATGATCAGACATACAGCTGCCTACCTA
ATGAGGACTTCAAGCCCCACCACATAGCATGCTTCTCTCTCTGCTCGGGGTAAAAGTGGCTGCGGTGTT
TGGCAATGCTAATTCAATGCCGCAACATATAGTTGAGGCCGAGGATAAAGAAAAGACATTTTAAGTTTGTAGTAA
AAGTGGTCTCTGCTGGGGAAGGGTTTTCTTTTCTTTTTTCTTTAATAACAAGGAGATTTCTTAGTTTCATATATC
AAGAAGTCTTGAAGTTGGGTGTTTCCAGAATTGGTAAAAACAGCAGCTCATGGAATTTTGAGTATTCATGAGCT
GCTCATTACAGTTCCTTCTCTTTCTGCTCTGCCATCTTCAGGATATTGGTTCTTCCCTCATAGTAATAAGATG
GCTGTGGCATTTCCAAACATCCAAAAAAGGGAAGGATTTAAGGAGGTGAAGTCGGGTCAAAAATAAAATATATA
TACATATATACATTGCTTAGAACGTAAACTATTAGAGTATTTCCCTTCCAAAGAGGGATGTTTGGAAGAACTC
TGAAGGAGAGGAGGAATTAGTTGGGATGCCAATTTCTCTCCACTGCTGGACATGAGATGGAGAGGCTGAGGGAC
AGGATCTATAGGCAGCTTCTAAGAGCGAACTTACATAGGAAGGGATCTGAGAACACGTTGCCAGGGGCTTGAGA
AGGTTACTGAGTGAGTTATTGGGAGTCTTAATAAAATAAACTAGATATTAGGTCCATTCAATTAATTAGTTCCAGT
TTCTCCTTGAAATGAGTAAAACTAGAAGGCTTCTCTCCACAGTGTTGTGCCCCTTCACTCATTTTTTTTTTGAGG
AGAAGGGGGTCTCTGTTAACATCTAGCCTAAAGTATACAACTGCCTGGGGGCGAGGGTTAGGAATCTCTTCACTA
CCCTGATTCTTGATTCTGGCTCTACCCTGTCTGTCCCTTTTCTTTGACCAGATCTTTCTCTTCCCTGAACGTTT
TCTTCTTTCCCTGGACAGGCAGCCTCCTTTGTGTGATTTCAGAGGCAGTGATGACTTGCTGTCCAGGCAGCTCCC
TCCTGCACACAGAATGCTCAGGGTCACTGAACCACTGCTTCTCTTTTGAAAGTAGAGCTAGCTGCCACTTTCACG
TGGCCTCCGCAGTGCTCCACCTACACCCCTGTGCTCCCCTGCCACACTGATGGCTCAAGACAAGGCTGGCAAAC
CCTCCCAGAAACATCTCTGGCCCAGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGGCACAGCCAAGCCAAGCGC
TCATGTTGAGCCAGTGGGCCAGCCACAGAGCAAAAGAGGGTTTTATTTTCAGTCCCCTCTCTCTGGGTGAGAACCA
GAGGGCATGCTGAATGCCCCCTGCTTACTTGGTGAGGGTGCCCCGCTGAGTCAGTGCTCTCAGCTGGCAGTGCA
ATGCTTGTAGAAGTAGGAGGAAACAGTTCTCACTGGGAAGAAGCAAGGGCAAGAACCCAAGTGCCTCACCTCGAA
AGGAGGCCCTGTTCCCTGGAGTCAGGGTGAAGTGCAGGCTTTGGCTGAGACCTGGGATTTGAGATACCACAAAC
CCTGCTGAACACAGTGTCTGTTTTCAGCAAACCTAACAGCATTCCCTACAGCCTAGGGCAGACAATAGTATAGAAGT

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FIGURE 1612B

CTGGAAAAAACAAAAACAGAATTTGAGAACCTTGGACCACTCCTGTCCCTGTAGCTCAGTCATCAAAGCA'GAAG
TCTGGCTTTGCTCTATTAAGATTGGAAATGTACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGCTGGAA
GGGAGGAAGGCCTTTCTTCTGTGTTAATTGCGTAGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTCT
TTTGAGCTATTACCTCAGTAGAAAAGGATCTAAGGGAAGATCAGTGTAGTTTGTGTTGACCTGTGCACCT
ACCCCTTGGAAATGTCIGCTGGTATTTCTAATTCCACAGGTCATCAGATGCCTGCTTGATAATATATAAAACAATA
AAAACAACTTTCACCTTCTTCTATTGTAATCGTGTGCCATGGATCTGATCTGTACCATGACCCTACATAAGGCTG
GATGGCACCTCAGGCTGAGGGCCCCAATGTATGTGTGGCTGTGGGTGTGGGTGGGAGTGTGTCTGCTGAGTAAGG
AACACGATTTTCAAGATTCTAAAGCTCAATTCAAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCCG
GATTTCTAACAGTCCCTGCTTTGGGGGGTGTGCTGACAACCTTAGCTCAGGTGCCTTACATCTTTTCTAATCACAG
TGTTGCATATGAGCCTGCCCTCACTCCCTCTGCAGAATCCCTTTGCACCTGAGACCCTACTGAAGTGGCTGGTAG
AAAAAGGGGCCTGAGTGGAGGATTATCAGTATCACGATTTGCAGGATTCCCTTCTGGGCTTCATTCTGGAACTT
TTGTTAGGGCTGCTTTTCTTAAGTGCCACATTTGATGGAGGGTGGAAATAATTTGAATGTATTTGATTTATAAG
TTTTTTTTTTTTTTTTGGGTTAAAAGATGGTTGTAGCATTTAAAATGGAAAATTTCTCCTTGGTTTGCTAGTATC
TTGGGTGTATTCTCTGTAAGTGTAGCTCAAATAGGTCATCATGAAAGGTTAAAAAGCGAGGTGGCCATGTTATG
CTGGTGGTTAAGGCCAGGGCCTCTCCAACCACTGTGCCACTGACTTGCTGTGTGACCCTGGGCAAGTCACTTAAC
TATAAGGTGCCTCAGTTTTCTTCTGTAAAATGGGGATAATAATACTGACCTACCTCAAAGGGCAGTTTTGAGG
CATGACTAATGCTTTTTTAGAAAGCATTTTGGGATCCTTCAGCACAGGAATTCTCAAGACCTGAGTATTTTTTATA
ATAGGAATGTCCACCATGAACTTGATACGTCCGTGTGTCCCAGATGCTGTCTATTAGTCTATATGGTTCTCCAAGA
AACTGAATGAATCCATTGGAGAAGCGGTGGATAACTAGCCAGACAAAATTTGAGAATACATAAAACAACGCATTGC
CACGGAAACATACAGAGGATGCCTTTTCTGTGATTGGGTGGGATTTTTTCCCTTTTTATGTGGGATATAGTAGTT
ACTTGTGACAAAAATAATTTTGAATAATTTCTATTAATATCAACTCTGAAGCTAATTGTACTAATCTGAGATTG
TGTTTGTTCATAATAAAAGTGAAGTGAATCTAAAAAAAAAAAAAAAAA

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FIGURE 1613

MPAHLLODDISSSYTTTTTITAPPSRVLQNGGDKLETMPLYLEDDIRPDIKDDIYDPTYKDKEGPSKVEYVWRN
IILMSLLHLGALYGITLIPTCKFYTWLWGVFYYFVSALGITAGAHRLWSHRSYKARLPLRLFLIIANTMAFQNDV
YEWARDHRAHHKFSETHADPHNSRRGFFFSHVGWLLVRKHPAVKEKGSTLDLSDEAEKLVMFQRRYYKPGLLLM
CFILPTLVPWYFWGETFQNSVFVATFLRYAVVLNATWLVNSAAHLFGYRPYDKNISPRENILVSLGAVGEGFHNY
HHSFPYDYSASEYRWHINFTTFFIDCMAALGLAYDRKKVSKAAILARIKRTGDGNYKSG

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FIGURE 1614

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG
AGACAGAAGCTAGTCCCCCTCTGAATTTTACTGATGAAGAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAA
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAAGCCAGGGAGCATCATTCAATTTAGCCTGCTGAGAAGAAGAA
ACCAAGTGTCGGGATTCTAGACCTCTCTGCGGCCCCAAGTGTTTCGTGGTGCTTCCAGAGGCAGGGCT**ATG**CTCAC
ATTCATGGCCTCTGACAGCGAGGAAGAAGTGTTGATGAGCGGACGTCCCTAATGTGCGCCGAGAGCCCCACGCC
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACACTGCCAGTGAGAGAAGCCAGGAGAACGA
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCTGGGCGGCCGAGGCCTGGAGGAAGA
GCTGACCCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCTGTCACTCTGTGCATGATCGTGCTGGT
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCACTGAGGACAC
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC
CATCTTCTTGGTGGTGCTCTACAAGTACCGCTGCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT
GCTGCTGTTCCCTCTTACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCAC
CCTCTTGCTGACTGTCTGGAACCTTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGCA
GCAGGCCTACCTCATCATGATCAGTGCCTCATGGCCCTAGTGTTTCATCAAGTACCTCCCAGAGTGGTCCGCGTG
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCTCTGAGAATGCTGGT
AGAAACTGCCCAGGAGAGAAATGAGCCCATATTCCTGCCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCCCTACGACCCGGAGATGGAAGAAGACTCCTA
TGACAGTTTTGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGA
GGAAGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGC
TGCCACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCCT
CCTGCTGCTTGCTGTGTTCAAGAAGGCGCTGCCCCGCCCTCCCCATCTCCATCACGTTTCGGGCTCATCTTTTACTT
CTCCACGGACAACCTGGTGC GGCGCTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGAGGGACATGGTG
TGCCACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTTTACACTCTAGTGCCATATATTT
TTAAGACTTTTCTTTCCTTAAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTG
CCAGCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGT
TTATCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAG
AGTGCTGCTCGGGAGTGGCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCTACGAGGAGTGT
TCCCAATGCTTTGTCCATGATGTCTTGTTATTTTATTGCTTTAGAAACTGAGTCCTGTTCTTGTACGGCAGT
CACACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA

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FIGURE 1615

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEEDGEEDPDRYVCSGVPGRPPGL
EEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLLNSVLNTLIMISVIV
VMTIFLVVLYKYRCYKF IHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLLTVWNFGAVGMVCIHWKGPL
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW
TVGMAKLDPSSQALQLPYDPEMEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEEEERGVKLGLGDFIFYSVLVGK
AAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

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FIGURE 1616

AGCCAGAGGGACGAGCTAGCCCGACG**ATG**GGCCAGGGGACATTGATCCGTGTGACCCCAGAGCAGCCCACCCATG
CCGTGTGTGTGCTGGGCACCTTGA**CT**CAGCTTGACATCTGCAGCTCTGCCCCTGAGGACTGCACGTCCCTTCAGCA
TCAACGCCCTCCCCAGGGGTGGTTCGTGGATATTGCCACAGCCCTCCAGCCAAGAAGAAATCCACAGGTTCCCTCCA
CATGGCCCCCTGGACCCTGGGGTAGAGGTGACCCTGACGATGAAAGCGGCCAGTGGTAGCACAGGCGACCAGAAGG
TTCAGATTTTCATACTACGGACCCAAGACTCCACCAGTCAAAGCTCTACTCTACCTCACCGCGGTGGAAATCTCCC
TGTGCGCAGACATCACCCGCACCGGCAAAGTGAAGCCAACCAGAGCTGTGAAAGATCAGAGGACCTGGACCTGGG
GCCCTTGTGGACAGGGTGCCATCCTGCTGGTGAAGTGTGACAGAGACAATCTCGAATCTTCTGCCATGGACTGCG
AGGATGATGAAGTGCTTGACAGCGAAGACCTGCAGGACATGTCGCTGATGACCCTGAGCACGAAGACCCCCAAGG
ACTTCTTCACAAACCATACTACTGGTCTCCACGTGGCCAGGTCTGAGATGGACAAAGTGAGGGTGTTTCAGGCCA
CACGGGGCAA**ACT**GTCTCCAAGTGCAGCGTAGTCTTGGGTCCCAAGTGGCCCTCTCACTACCTGATGGTCCCCG
GTGGAAGCACAA**CA**TGGACTTCTACGTGGAGGCCCTCGCTTTCCCGACACCGACTTCCCGGGGCTCATTACCC
TCACCATCTCCCTGCTGGACACGTCCAACCTGGAGCTCCCCGAGGCTGTGGTGTTCCAAGACAGCGTGGTCTTCC
GCGTGGCGCCCTGGATCATGACCCCCAACACCCAGCCCCCGCAGGAGGTGTACGCGTGCA**GT**ATTTTTGAAAATG
AGGACTTCCTGAAGTCAGTGA**CT**ACTCTGGCCATGAAAGCCAAGTGCAAGCTGACCATCTGCCCTGAGGAGGAGA
ACATGGATGACCAGTGGATGCAGGATGAAATGGAGATCGGCTACATCCAAGCCCCACACAAAACGCTGCCCGTGG
TCTTCGACTCTCCAAGGAACAGAGGCCTGAAGGAGTTTCCCATCAAACGAGTGATGGGTCCAGATTTTGGCTATG
TAACTCGAGGGCCCCAAACAGGGGTATCAGTGGACTGGACTCCTTTGGGAACCTGGAAGTGAGCCCCCAGTCA
CAGTCAGGGGCAAGGAATACCCGCTGGGCAGGATTCTCTTCGGGGACAGCTGTTATCCAGCAATGACAGCCGGC
AGATGCACCAGGCCCTGCAGGACTTCCTCAGTGCCAGCAGGTGCAGGCCCTGTGAAGCTCTATTCTGACTGGC
TGTCCGTGGGCCACGTGGACGAGTTCTGAGCTTTGTGCCAGACCCGACAGGAAGGGCTTCCGGCTGCTCCTGG
CCAGCCCCAGGTCTCTGCTACAAACTGTTCCAGGAGCAGCAGAATGAGGGCCACGGGGAGGCCCTGCTGTTTGAAG
GGATCAAGAAAAAAAAACAGCAGAAAATAAAGAACATTCTGTCAAACAAGACATTGAGAGAACATAATTCATTTG
TGGAGAGATGCATCGACTGGAACCGCGAGCTGCTGAAGCGGGAGCTGGGCCTGGCCGAGAGTGACATCATTGACA
TCCCGCAGCTCTTCAAGCTCAAAGAGTTCTCTAAGGCGGAAGCTTTTTTCCCAACATGGTGAACATGCTGGTGC
TAGGGAAGCACCTGGGCATCCCCAAGCCCTTCGGGGCCGTCATCAACGGCCGCTGCTGCCTGGAGGAGAAGGTGT
GTTCCCTGCTGGAGCCACTGGGCCTCCAGTGCACCTTCATCAACGACTTCTTACCTACCACATCAGGCATGGGG
AGGTGCACTGCGGCACCAACGTGCGCAGAAAGCCCTTCTCCTTCAAGTGGTGGAACATGGTGCCCT**AG**AGCCCATC
TTCCCTGGCGTCTCTCCCTCCTGGCCAGATGTCGCTGGGTCTCTGCA**GT**GTGGCAAGCAAGAGCTCTTGTGAA
TATTGTGGCTCCCTGGGGGCGGCCAGCCCTCCCAGCAGTGGCTTGCTTTCTTCTCCTGTGATGTCCAGTTTCCC
ACTCTGAAGATCCCAACATGGTCCTAGCACTGCACACTCAGTTCTGCTCTAAGAAGCTGCAATAAAGTTTTTTTA
AGTCACTTTGTAC

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FIGURE 1617

MAQGTILIRVTPEQPTHAVCVLGTLTQLDICSSAPEDCTSFSINASPGVVVDIAHSPPAKKKSTGSSTWPLDPGVE
VTLTMKAASGSTGDQKVQISYYGPKTPPVKALLYLTAVEISLCADITRTGKVKPTRAVKDQRTWTWGPGCGGAIL
LVNCDRDNLESSAMDCEDDEVLDSEDLQDMSLMTLSTKTPKDDFTNHTLVLHVARSEMDKVRVFQATRGLSSKC
SVVLGPKWPSHYLMVPGGKHNMDFYVEALAFPDTFPGLITLTISLLDTSNLELPEAVVFQDSVVFRVAPWIMTF
NTQPPQEVYACSFENEDFLKSVTTLAMKAKCKLTICPEEENMDDQWMQDEMEIGYIQAPHKTLPVVFDSPRNRG
LKEFPIKRVMGPDFGYVTRGPQTGGISGLDSFGNLEVSPPVTVRGKEYPLGRILFGDSCYPSNDSRQMHQALQDF
LSAQQVQAPVKLYSDWLSVGHVDEFLSFVPAPDRKGFRLLLASPRSCYKLFQEQQNEGHEALLFEGIKKKKQQK
IKNILSNKTLREHNSFVERCIDWNRELLKRELGLAESDIIDIPQLFKLKEFSKAEAFFPNMVNMLVLGKHLGIPK
PFGPVIINGRCCLEEKVCSLLEPLGLQCTFINDFFTYHIRHGEVHCGTIVRRKPFSEKWWNMVP

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FIGURE 1618

CCACGCGTCCGGTGCGGACGGGCGCGGACCACCTCCAGGGGCTAAGTG**ATGG**ATCCTTGACTCCGTGTTGCAGAT
TACTATTTTTTTACACCATACGTGTATCCAGCCACATGGCCAGAAGATGACATCTTCCGACAAGCTATTAGTCTT
CTGATTGTAACAAATGTTGGTGCTTACATCCTTTATTTCTTCTGTGCAACACTGAGCTATTATTTTGTCTTCGAT
CATGCATTAATGAAACATCCACAATTTTTAAAGAAATCAAGTCCGTCGAGAGATTAAGTTTACTGTCCAGGCATTG
CCATGGATAAGTATTCTTACTGTTGCACTGTTCTTGCTGGAGATAAGAGGTTACAGCAAATTACATGATGACCTA
GGAGAGTTTCCATATGGATTGTTTGAACCTGTCTGTAGTATAATATCTTTCTCTTTTTTCACTGACATGTTTCATC
TACTGGATTACAGAGGCCCTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATT
CCTACTCCATTTGCAAGTCATGCTTTTACCCTATTGATGGCTTTCTTCAGAGTCTACCTTACCATATATACCCT
TTTATCTTTCCATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTGTTAATATCTGGACAATTTCCATTTCAT
GACGGTGATTTTCTGTGTCCCCAAATCTTACAGCCATTTATTAATGGCTCAGCTCATCATACAGACCACCATATG
TTCTTTGACTATAATTATGGACAATATTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCCTTCATCC
TTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAAGCGCAGCAGCCCTTCAGGAAATGGC
TGTAAGAATGAAAAATTATTCAATGGAGAGTTTACAAAGACTGA**ATAG**ATTATTGCCAGTTATTCTTAAGTAAG
GACAAAGAAGGAAATATCATCGTATTTCTTTTTTTAATAAGGAAAAAATAATCTCCATACAGTCAAGATACATA
GTAAATGGTATCATTTGGAAATCAGCATCGTGGGCACTGCTGAGGAATGATCCTAGTGGTAGGTCAGAAGAAGAT
GCTGTGAACACCAGGACTTTAATCTTATGCTTAAATGCCAGATGTTGTTTCGGGCCCCAACTTGATTTCTAGCA
GCAGATCTGTAGTTTGTATAGCCTCAACAACAATTTTAAATAAGATGGAGAATAAATTATTGAGGGGACTAGGCT
ATATGCATTTGCCTTCATCCACCCATGTTTATTAAGAATCATTGTGCTTAAATAATACCAAGACTAAGCACCATAA
CCAAGAAATACTAATGTAAAGATTGTTTCTTGTTTCAGGAATGGTTAATTCTTCAACGTTGGTATGATAATGATA
ACTTGTTTTGACTTGAATAAAGTACTACATCAGTGTGGAATAAATTCTGATACATTAGCAGCTATGTAAATGAC
CTAATTGATAGCAGGTGTAATAAGACTATCGTCTTCTTACACATAGGAGGCTCATTCTCTGGACACACTATCACC
TATTACATTTTACTGATTAAACAAATAAATTGGAATTTAAAAATATCGATATCACCATGATTTAATCCAGATCTGG
GATTATGTAGCTAAACATTGTGATGATTATTATTTAAAACCATTATTTAATAAGAGTAAAAATATGTGAATCTGG
ATATATTTAAAAAAGAAATTTGATTGCCAGATAATATATTAGGCACTACTGATTTTTTAGTTAAATTGATGCA
CTACACTTTTGATGTTTGAAGTTACAACCTGTAATTTTTTTGTAAAGGAAATAATTGCCAAATACCTAGGCCCAT
TGCTGACGATTAGTTCTAAATCTTATTCCCTCCTCTTCTCCCCTCAGTTTTCCCTACTTCTCTGCAAAAAGATT
TAACAAATACATTTCATAAGGAAATGTGTGTTGTAACAAATATATTGCAAAAACATAGTTTGTAAAGGCATTCTAT
AAGCTATTTATGTAAATCAATAAAAGTTGATCATAATTAACTGTAAAAAAGGCGGC

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FIGURE 1619

MDLVLRVADYYFFTPYVYPATWPEDDIFRQAISLLIVTNVGAYILYFFCATLSYYFVFDHALMKHPQFLKNQVRR
EIKFTVQALPWISILTVALFLEIRGYSKLHDDLGEFPYGLFELVVSIIISFLFFTDMMFIYWIHRGLHHRLVYKRL
HKPHHIWKIPTPFASHAFHPIDGFLQSLPYHIYPFIFPLHKVVYLSLYILVNIWTISIHDGDFRVPQILQPFING
SAHHTDHHMFFDYNYGQYFTLWDRIGGSFKNPSSFEGKGPLSYVKEMTEGKRSSPSGNGCKNEKLFNGEFTKTE

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FIGURE 1620

TCCTGCTCTGGGGAAGTGGGCACACGTTAAAAGAAATGTTTATTTTCAGTCTTCTGAAATAGGGAATTACTCTGGC
TAAATGTAGCTCCAGAAAGGGAAAAGTGGGGCTGTATGAATCCAGGTCCAGTTTGTGTTTCTCCAGGATAAGG
CAGCTGTCGGAGGGGAAAATCATCTCCCATTTCTCCACAGGGCAGTCTGAAGATGGCCAATTACACGCTGGCACC
AGAGGATGAATATGATGTCCTCATAGAAGGTGAACTGGAGAGCGATGAGGCAGAGCAATGTGACAAGTATGACGC
CCAGGCACCTCTCAGCCCAGCTGGTGCCATCACTCTGCTCTGCTGTGTTTGTGATCGGTGTCTTGACAATCTCCT
GGTTGTGCTTATCCTGGTAAAATATAAAGGACTCAAACGCGTGGAAAATATCTATCTTCTAAACTTGGCAGTTTC
TAACTTGTGTTTCTTGCTTACCCTGCCCTTCTGGGCTCATGCTGGGGGCGATCCCATGTGTAAAATTCTCATTGG
ACTGTACTTCGTGGGCCTGTACAGTGAGACATTTTTCAATTGCCTTCTGACTGTGCAAAGGTACCTAGTGTTTTT
GCACAAGGGCAACTTTTTCTCAGCCAGGAGGAGGGTGCCCTGTGGCATCATTACAAGTGTCTTGGCATGGGTAAC
AGCCATTCTGGCCACTTTGCCTGAATACGTGGTTTATAAACCTCAGATGGAAGACCAGAAAATACAAGTGTGCATT
TAGCAGAACTCCCTTCTGCCAGCTGATGAGACATTCTGGAAGCATTTTCTGACTTTAAAAATGAACATTTCTGGT
TCTTGCTCTCCCTTATTTATTTTACATTTCTCTATGTGCAAATGAGAAAAACACTAAGGTTTCAAGGAGCAGAG
GTATAGCCTTTTCAAGCTTGTTTTTGCCATAATGGTAGTCTTCTTCTGATGTGGGCGCCCTACAATATTGCATT
TTTCTGTCCACTTTCAAAGAACACTTCTCCCTGAGTGACTGCAAGAGCAGCTACAATCTGGACAAAAGTGTTCA
CATCACTAAACTCATCGCCACCACCCACTGCTGCATCAACCCTCTCCTGTATGCGTTTCTTGATGGGACATTTAG
CAAATACCTCTGCCGCTGTTTCCATCTGCGTAGTAACACCCCACTTCAACCCAGGGGGCAGTCTGCACAAGGCAC
ATCGAGGGAAGAACCTGACCATTCCACCGAAGTGTAAACTAGCATCCACCAAATGCAAGAAGAATAAACATGGAT
TTTCATCTTTCTGCATTATTTTCATGTAAATTTTCTACACATTTGTATACAAAATCGGATACAGGAAGAAAAGGGA
GAGGTGAGCTAACATTTGCTAAGCACTGAATTTGTCTCAGGCACCGTGCAAGGCTCTTTACAAACGTGAGCTCCT
TCGCTCCTACCACTTGTCCATAGTGTGGATAGGACTAGTCTCATTTCTCTGAGAAGAAAACTAAGGCGCGGAAA
TTTGTCTAAGATCACATAACTAGGAAGTGGCAGAACTGATTCTCCAGCCCTGGTAGCATTGCTCAGAGCCTACG
CTTGGTCCAGAACATCAAACCTCCAAACCTGGGGACAAACGACATGAAATAAATGTATTTTAAAACATCT

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FIGURE 1621

MANYTLAPEDEYDVLIEGELESDEAEQCDKYDAQALSAQLVPSLCSAVFVIGVLDNLLVVLILVKYKGLKRVENI
YLLNLAVSNLCFLLTLPFWAHAGGDEMCKILIGLYFVGLYSETFFNCLLTQRYLVFLHKGNFFSARRRVPCGII
TSVLAWVTAILATLPEYVVYKPMEDQKYKCAFSRTPFLPADETFWKHFLTLKMNISVLVLPFI FTFLYVQMRK
TLRFREQRYSLFKLVFAIMVVFLMWAPYNIAFFLSTFKEHFSLS DCKSSYNLDKSVHITKLIATTHCCINPLLY
AFLDGTFSKYLCRCFHLSNTPLQPRGQSAQGTSREEPDHSTEV

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FIGURE 1622

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCACCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCGGCGGAGGGAGCGGGACGTGGCCAGCGGTGAGCGGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCA**ATGA**AGTTCCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCCTGATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCTTATTCTTCTTTGTCAACAACACTATCCCTCCCCTAGTGCTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCCTACAGTAATGAGAGTGTCTATGGGAA**TGAG**TGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGCTTCCTTGGCCCAGGGAGAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCTGAGATTTAATTTTTGTGCAGTTTCATAGAAAG
GTCGGTCAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTGACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCGATCTTCCGTATCCCACACTTCTTTTCTCCCA
TCCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCCAGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAATAGGGGTTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGTT
TAAATAGCATTAAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAATTTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGGAAGGGGCAGGTATGAAGTGAGGTAGATTA
TCTATACCTCTCACTCATTGAGGATTCTCGCTCCCATGCTGCTGTCCCTTCATTCTCACACTCACAGGAATGCTA
TGTGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAATGAAAAGGGTTCTTCTCTTGGGGGAAATCTGTGTGTCAG
TTCTGTGAGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTGTCAGGCCAAG

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FIGURE 1623

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRRKYLVPDLTDGQFYLLIRKRIHLRPEDA
LFFFVNNTIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

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FIGURE 1624A

CCTCTTGCGGCCACAGGCGCGGCGTCTCTCGGCGGCGGGCGGCAGCTAGCGGGAGCCGGGACGCCGGTGCAGCCGC
AGCGCGCGGAGGAACCCGGGTGTGCCGGGAGCTGGGCGGCCACGTCCGGACGGGACCGAGACCCCTCGTAGCGCA
TTGCGGCGACCTCGCCTTCCCCGGCCGCGAGCGCGCCGCTGCTTGAAAAGCCGCGGAACCCAAGGACTTTTCTCC
GGTCCGAGCTCGGGGCGCCCCGAGGCGCACGGTACCCGTGCTGCAGTCGGGCACGCCGCGGCGCCGGGGGGCCTC
CGCAGGGCGATGGAGCCGGTCTGCAAGGAAAGTGAGGCGCCGCCGCTGCGTTCTGGAGGAGGGGGGCACAAGGTC
TGGAGACCCCGGTGGCGGACGGGAGCCCTCCCCCGCCCCGCTCCGGGGACACCAGCTCCGGCTCCATTGTTCC
CGCCCGGGCTGGAGGCGCCGAGCACCGAGCGCCGCGGGAGTCGAGCGCCGGCCGCGGAGCTCTTGCGACCCCGC
CAGGACCCGAACAGAGCCCGGGGGCGGGCGGGCCGGAGCCGGGGACGCGGGCACACGCCCGCTCGCACAAAGCCACG
GCGGACTCTCCCGAGGCGGAACCTCCACGCCGAGCGAGGGTCACTTTGAAAAGGAGGATCGAGCTCACTGTGGAG
TATCCATGGAGATGTGGAGCCTTGTACCAACCTCTAACTGCAGAACTGGGATGGAGCTGGAAGTGCCTCCTC
TTCTGGGCTGTGCTGGTACAGCCACACTCTGCACCGCTAGGCCGTGCCGACCTTGCTGAACAAGCCAGCCC
TGGGGAGCCCTGTGGAAGTGGAGTCTTCTGGTCCACCCGGGTGACCTGCTGCAGTTGCGCTGTGGCTGCGG
GACGATGTGCAGAGCATCAACTGGCTGCGGGACGGGGTGCAGCTGGCGGAAAGCAACCGCACCCGCATCACAGGG
GAGGAGGTGGAGGTGCAGGACTCCGTGCCCGCAGACTCCGGCCTCTATGCTTGCGTAACCAGCAGCCCTCGGGC
AGTGACACCACCTACTTCTCCGTCAATGTTTCAGATGCTCTCCCTCTCTCGGAGGATGATGATGATGATGAC
TCCTCTTCAGAGGAGAAAGAAACAGATAACACCAAACCAAACCGTATGCCCGTAGCTCCATATTGGACATCCCCA
GAAAAGATGGAAAAGAAATTGCATGCAGTGCCGGCTGCCAAGACAGTGAAGTTCAAATGCCCTTCCAGTGGGACC
CCAAACCCACACTGCGCTGGTTGAAAAATGGCAAAGAATTCAAACCTGACCACAGAATTGGAGGCTACAAGGTC
CGTTATGCCACCTGGAGCATCATAATGGACTCTGTGGTGCCCTCTGACAAGGGCAACTACACCTGCATTGTGGAG
AATGAGTACGGCAGCATCAACCACACATAACAGCTGGATGTCGTGGAGCGGTCCCTCACCGGCCCATCTGCAA
GCAGGGTTGCCCGCCAACAAAACAGTGGCCCTGGGTAGCAACGTGGAGTTCATGTGTAAGGTGTACAGTGACCCG
CAGCCGCACATCCAGTGGCTAAAGCACATCGAGGTGAATGGGAGCAAGATTGGCCCAGACAACCTGCCTTATGCC
CAGATCTTGAAGACTGCTGGAGTTAATAACACCGACAAAAGAGATGGAGGTGCTTCACTTAAGAAATGTCTCCTTT
GAGGACGCAGGGGAGTATACGTGCTTGGCGGGTAACCTCTATCGGACTCTCCCATCACTCTGCATGGTTGACCGTT
CTGGAAGCCCTGGAAGAGAGGCCGCGCAGTGATGACCTCGCCCTGTACCTGGAGATCATCATCTATTGCACAGGG
GCCTTCTCATCTCCTGCATGGTGGGGTCGGTCATCGTCTACAAGATGAAGAGTGGTACCAAGAAGAGTGACTTC
CACAGCCAGATGGCTGTGCACAAGCTGGCCAAGAGCATCCCTCTGCGCAGACAGGTAACAGTGTCTGCTGACTCC
AGTGATCCATGAACCTCTGGGGTCTTCTGGTTTCGGCCATCACGGCTCTCCTCCAGTGGGACTCCCATGCTAGCA
GGGGTCTCTGAGTATGAGCTTCCGAAGACCCCTCGCTGGGAGCTGCCTCGGGACAGACTGGTCTTAGGCAAACCC
CTGGGAGAGGGCTGCTTTGGGCAGGTGGTGTGGCAGAGGCTATCGGGCTGGACAAGGACAAACCCAAACCGTGTG
ACCAAAGTGGCTGTGAAGATGTTGAAGTCGGACGCAACAGAGAAAGACTTGTGAGACCTGATCTCAGAAATGGAG
ATGATGAAGATGATCGGGAAGCATAAGAATATCATCAACCTGCTGGGGGCTGCACGCAGGATGGTCCCTTGAT
GTCATCGTGGAGTATGCCTCCAAGGGCAACCTGCGGGAGTACCTGCAGGCCCGGAGGCCCCCAGGGCTGGAATAC
TGCTACAACCCAGCCACAACCCAGAGGAGCAGCTCTCTCCAAGGACCTGGTGTCTGCGCCTACCAGGTGGCC
CGAGGCATGGAGTATCTGGCCTCCAAGAAGGTGTGGAACCTGAAGGCTCCCTGGTGCATACACCGAGACCTGGC
AGCCAGGAATGTCTGGTGACAGAGGACAATGTGATGAAGATAGCAGACTTTGGCCTCGCACGGGACATTACCA
CATCGACTACTATAAAAAGACAACCAACGGCCGACTGCCTGTGAAGTGGATGGCACCCGAGGCATTATTTGACCG
GATCTACACCCACCAGAGTGATGTGTGGTCTTTTCGGGGTGCTCCTGTGGGAGATCTTCACTCTGGGCGGCTCCCC
ATACCCCGGTGTGCCTGTGGAGGAACTTTTCAAGCTGCTGAAGGAGGGTCACCGCATGGACAAGCCAGTAACCTG
CACCAACGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCTCACAGAGACCCACCTTCAAGCAGCT
GGTGGAAAGACCTGGACCGCATCGTGGCCTTGACCTCCAACCAGGAGTACCTGGACCTGTCCATGCCCTTGACCA
GTACTCCCCCAGCTTTCCCGACACCCGGAGCTCTACGTGCTCCTCAGGGGAGGATTCCGGTCTTCTCTCATGAGCC
GCTGCCCCGAGGAGCCCTGCCTGCCCCGACACCCAGCCAGCTTGCCAATGGCGGACTCAAACGCCGCTGACTGCC
ACCCACACGCCCTCCCCAGACTCCACCGTCAGCTGTAAACCTCACCCACAGCCTGCTGGGGCCACCACCTGTCCG
TCCCTGTCCCCTTTTCTGCTGGCAGGAGCCGGCTGCCTACCAGGGGCCCTTCTGTGTGGCCTGCCTTCACCCAC
TCAGCTCACCTCTCCCTCCACCTCCTCTCCACCTGCTGGTGAGAGGTGCAAAGAGGCAGATCTTTGCTGCCAGCC
ACTTCATCCCCTCCCAGATGTTGGACCAACACCCCTCCCTGCCACAGGCACTGCCTGGAGGGCAGGGAGTGGGAG
CCAATGAACAGGCATGCAAGTGAGAGCTTTCTGAGCTTTCTCTGTGCGTTTGGTCTGTTTTGCCTTCACCCATA

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FIGURE 1624B

AGCCCCTCGCACTCTGGTGGCAGGTGCTTGTCCCTCAGGGCTACAGCAGTAGGGAGGTCAGTGCTTCGTGCCTCGA
TTGAAGGTGACCTCTGCCCCAGATAGGTGGTGCCAGTGGCTTATTAATTCCGATACTAGTTTGCTTTGCTGACCA
AATGCCTGGTACCAGAGGATGGTGAGGCGAAGGCCAGGTTGGGGGCAGTGTTGTGCCCTGTCCCAGCCCCAACTG
GGGGCTCTGTATATAGCTATGAAGAAAACACAAAGTGTATAAATCTGAGTATATATTTACATGTCTTTTTAAAAG
GGTCGTTACCAGAGATTTACCCATCGGGTAAGATGCTCCTGGTGGCTGGGAGGCATCAGTTGCTATATATTAAAA
ACAAAAAAGAAAAAAAGGAAAATGTTTTTAAAAAGGTCATATATTTTTTGCTACTTTTGCTGTTTTATTTTTT
AAATTATGTTCTAAAC

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FIGURE 1625

MWSWKCLLFWAVLVTATLCTARPSPRTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWLRDGVQLAE
SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEEKETDNTKPNRMP
VAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK
GNYTCIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI
GPDNLFPYVQILKTAGVNTTDDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVLEALEERP AVMTSPLYL
EIIIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSQMAVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS
SSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFGQVVLAEAIGLDKDKPNRVTKVAVKMLKSDATEKDL
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLEICYNPSHNP EEQLSSKDL
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYYKTTNGRLPVKWM APEALFDR
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPVEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVP SQRP TFKQL
VEDLDRIVALTSNQEYLDLSMPLDQYSPSFPDTRSSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR

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FIGURE 1626

TCAGAGTCCGGGCTCAGGCTCCGGGCTGCGGGCTCCAGCCCGCGATGCCCCATTCCGTGACCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCCTGGTGGGCGGCGGGGACTTCAGCGCGCCCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCCAGTGCCCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCCCACAACCAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCCAGATGAGCACCC
TGCATGTGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGGATTGGCCCGGGCCTGGCGGGCCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCTGCAGGGGCTGCCCGAGTGCACGCGCTGCGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCAGTGTTCATGTGCAGTGACTGCGGCCCTGA
ACCTCAAGCAGCGTGGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCTGAAGC
CGCCCGAGGGCTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAACCTCGTCTGAGCTGGGACCCTGCTCC
CACGCTGCTTCTTAAGGTCCCTGCTCGGCCGGTGTAAATATGTTTACCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTCACCTGGCCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAACTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCCTAGCGGGTTGGGGGTGGTGGTGGGGTGCTGGCAGCCTCAGGAGCGATCGCTCCCCCTGGAGAGGGTGA
TTGAGTGTGGAGATCACCGGGGCCGCCGCGGGCCGTCTGCACTTCTGTTCCAGGTTTTTCTGGCATTCTTCTGTTT
CAGGTTTTCTTCCACCCACGAGCACTTTATTCTCCTCCGAGACCCCTTTTTCTTCCCCTTCTCTCTCCCACCAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGGTTTAGAAAGAAAAGAACACTTGCCCAGGGCAGCTTT
GCCCCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGCGCTTTACCTCGTGGTGTGTTTGCCCTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCTTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCCTATTTAGCGAGCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTCACATTCATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCATTTTTGCCAGTCTGTAAAGTAAAATGTCATATGCGTTTG
TTTTAA

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FIGURE 1627

MPHSVTLRGPSPWGFRLVGGRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGESTELMTHLEAQNRIKGCHDH
LTL SVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPEDGRPSLGSPYGQPPRFPVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLPRSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSFYRLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFCMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

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FIGURE 1628

GCTAACCAGGCCAGTGACAGAAATGGATTTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGT
CCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTTAAAAGTAAAGCTCTAGAGGCCGTCAAATTGGCAATAGA
AGCCGGGTTCCACCATATTGATTCTGCACATGTTTACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCAA
GATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCAAAGCTTTGGAGCAATTCCTCATCGACCAGA
GTTGGTCCGACCAGCCTTGGAAGGTCAGTAAAAATCTTCAATTGGACTATGTTGACCTCTATCTTATTCATTT
TCCAGTGTCTGTAAAGCCAGGTGAGGAAGTGATCCCAAAAGATGAAAATGGAAAAATACTATTTGACACAGTGGA
TCTCTGTGCCACATGGGAGGCCATGGAGAAGTGTAAGATGCAGGATTGGCCAAGTCCATCGGGGTGTCCAATT
CAACCACAGGCTGCTGGAGATGATCCTCAACAAGCCAGGGCTCAAGTACAAGCCTGTCTGCAACCAGGTGGAATG
TCATCCTTACTTCAACCAGAGAAAACTGCTGGATTTCTGCAAGTCAAAGACATTGTTCTGGTTGCCTATAGTGC
TCTGGGATCCCATCGAGAAGAACCATGGGTGGACCCGAACCTCCCGGTGCTCTTGGAGGACCCAGTCTTTGTGC
CTTGGCAAAAAAGCACAAGCGAACCCAGCCCTGATTGCCCTGCGCTACCAGCTGCAGCGTGGGGTTGTGGTCCT
GGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTGTTTGAATTCCAGTTGACTTCAGAGGAGAT
GAAAGCCATAGATGGCCTAAACAGAAATGTGCGATATTTGACCCTTGATATTTTTGCTGGCCCCCTAATTATCC
ATTTTCTGATGAATATTAACATGGAGGGCATTGCATGAGGTCTGCCAGAAGGCCCTGCGTGTGGATGGTGACACA
GAGGATGGCTCTATGCTGGTGACTGGACACATCGCCTCTGGTTAAATCTCTCCTGCTTGGCGACTTCAGTAAGCT
ACAGCTAAGCCCATCGGCCGAAAAGAAAGACAATAATTTGTTTTTCATTTTGAAAAAATTAAATGCTCTCTCC
TAAAGATTCTTCACCTAATTAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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FIGURE 1629

MDSKYQCVKLNDGHFMPVLGF¹GT²YAPAEV³PKSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSNSHRPELV⁴RPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIPK⁵DENGKILFDTVDLCATWEA
MEKCKDAGLAKSIGVSNF⁶NHRLLEMILNKPGLKYK⁷PVCNQVECHPYFNQ⁸RKLLDFCKSKDIVLVAYSALGSHREE
PWVDPNSPVLLED⁹PVLCALAKKHKRTPALIALRYQLQ¹⁰RGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN
RNVRYLTLDIFAGPPNY¹¹PFSDEY

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FIGURE 1630

CACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTAT
TTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAAAATTAAATTTTAACCATGAGGGAAATCGTGACATCCAG
GCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACC
GGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAA
TATGTTCCCTCGTGCCATCCTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTGCTCAGGTCCCTTTTGGCCAG
ATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAGAG
GGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTC
CAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCTGGAATGGGCACCTCTCCTTATCAGCAAGATCCGAGAAGAA
TACCCTGATCGCATCATGAATACCTTCAGTGTGGTGCCTTCACCCAAAGTGTCTGACACCGTGGTGCAGCCCTAC
AATGCCACCCTCTCCGTCCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTAT
GATATCTGCTTCCGCACTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATG
AGTGGTGTACCCACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTC
CCCTTCCCACGTCTCCATTTCTTTATGCCTGGCTTTGCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCT
CTCACAGTGCCGGAACCTACCCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCCTGTGACCCCCGCCACGGC
CGATACCTCACCCTGGCTGCTGTCTTCCGTGGTTCGATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTG
CAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCT
CGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAG
CAGTTCACTGCCATGTTCCGCCGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTC
ACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAG
GAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCCTAAGGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCCTTA
GCCGTCTTACTCAACTGCCCCCTTTCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTTTTTGTTTTTT
CTTCTGGGGGGGGTCTAGAACAGTGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTTTGTTGAATGTCTCCT
CTCTCTTTCCACTCTGGGAAACCTAGGTTTCTGCCATTCTGGGTGACCCTGTATTTCTTTCTGGTGCCCCATTCCA
TTTGTCCAGTTAATACTTCTCTTAAAAATCTCCAAGAAGCTGGGTCTCCAGATCCCATTTAGAACCAACCAGGT
GCTGAAAACACATGTAGATAATGGCCATCATCTTAAGCCCAAAGTAGAAAATGGTAGAAGGTAGTGGGTAGAAGT
CACTATATAAGGAAGGGGATGGGATTTTCCATTCTAAAAGTTTTGGAGAGGGAAATCCAGGCTATTAAAGTCACT
AAATTTCTAAGTATGTCCATTTCCCATCTCAGCTTCAAGGGAGGTGTCAGCAGTATTATCTCCACTTTCAATCTC
CCTCCAAGCTCTACTCTGGAGGAGTCTGTCCCACTCTGTCAAGTGGAATCCTTCCCTTTCCAACCTCTACCTCCCT
CACTCAGCTCCTTTCCCCTGATCAGAGAAAGGGATCAAGGGGGTTGGGAGGGGGGAAAGAGACCAGCCTTGGTCC
CTAAGCCTCCAGAAACGTCTTCTTAATCCCCACCTTTTCTTACTCCCAAAAAGAATGAACACCCCTGACTCTGG
AGTGGTGTATACTGCCACATCAGTGTGTTGAGTCAGTCCCCAGAGGAGAGGGGAACCCCTCCTCCATCTTTTTTGCA
ACATCTCATTCTTCTTTTGTGTTGCTTCCCCCTCACACACTTGGTTTTTGTCTATCCTACATTTGAGATTT
CTATTTTATGTTGAACTTGCTGCTTTTTTTCATATTGAAAAGATGACATCGCCCCAAGAGCCAAAAATAAATGGG
AATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1631

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKNNM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQNKNSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEFEA

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FIGURE 1632A

ATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATGAAATAGATCTCTCGGCTCTGAGGGACCTGCAGGGATCTTT
GAATTGGTGGAACCTTGTTGGAAATGGAACATACGGGCAAGTTTATAAGGGTCGTCATGTCAAAAACGGGCCAGCTT
GCAGCCATCAAGGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAA
TATTCTCATCACCGGAATATTGCTACATACTATGGTGCTTTTATCAAAAAGAACCCACCAGGCATGGATGACCAA
CTTTGGTTGGTGATGGAGTTTTGTGGTGCTGGCTCTGTACCGGACCTGATCAAGAACACAAAAGGTAACACGTTG
AAAGAGGAGTGATTGCATACATCTGCAGGGAAATCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATT
CATCGAGATATTAAAGGGCAAATGTCTTGCTGACTGAAAATGCAGAAGTTAACTAGTGGAAGTTTGGAGTCAGT
GCTCAGCTTGATCGAACAGTGGGCAGGAGGAATACTTTTCATTGGAAGTCCCTACTGGATGGCACCAGAAGTTATT
GCCTGTGATGAAAACCCAGATGCCACATATGATTTCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAA
ATGGCAGAAGGTGCTCCCCCTCTCTGTGACATGCACCCCATGAGAGCTCTCTTCCTCATCCCCCGAATCCAGCG
CCTCGGCTGAAGTCTAAGAAGTGGTCAAAAAAATTCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGC
CAGCGACCAGCAACAGAACAATTGATGAAGCATCCATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATT
CAACTCAAGGACCATATTGATAGAACAAGAAGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGA
AGTGAGGAAGAAGAGGAGGAGAATGACTCAGGAGAGCCAGCTCCATCCTGAATCTGCCAGGGGAGTCGACGCTG
CGGAGGGACTTTCTGAGGCTGCAGCTGGCCAACAAGGAGCGTTCTGAGGCCCTACGGAGGCAGCAGCTGGAGCAG
CAGCAGCGGGAGAATGAGGAGCACAAGCGGCAGCTGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAG
CAGAGGCGGCGGCTGGAGGAGCAACAAAGGCGAGAGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGG
CACTATGAGGAGCAGATGCGCCGGGAGGAGGAGGAGGCGTGCAGGAGCATGAACAGGAATACATCAGGCGACAG
TTAGAGGAGGAGCAGAGACAGTTAGAGATCTTGACGAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATAT
AAGCGCAAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAGAGGCAGCTAAAGCAAGAAAAGAGACTACTTA
GTTTCCCTTCAGCATCAGCGGCAGGAGCAGAGGCCCTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATG
AGTCCTAGTGAGAAGCCAGCATGGGCCAAGGAGGTAGAAGAACGGTCAAGGCTCAACCGGCCAAAAGTTCCCTTGCC
ATGCCTCACAAGGTTGCCAACAGGATATCTGACCCCAACCTGCCCCCAAGGTCGGAGTCCTTCAGCATTAGTGGA
GTTTCAGCCTGCTCGAACACCCCCCATGCTCAGACCAGTCGATCCCCAGATCCCACATCTGGTAGCTGTAAAATCC
CAGGGACCTGCCTTGACCGCTCCCAGTCAGTGCACGAGCAGCCACAAGGGCCTCTCTGGGTTTCAGGAGGCT
CTGAACGTGACCTCCACCGCGTGGAGATGCCACGCCAGAAGTCAGATCCCACCTCGGAAAAATCCTCCTCTCCCC
ACTCGCATTGAAAAGTTTGACCGAAGCTCTTGTTACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGA
ACAACCTTCTATATCCCAGCATTAGCCAGAAAGAAATCTCCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGA
TCTCAACCCATCAGAGCAAGCAACCCCTGATCTCCGGAGAAGTCAGCCCATCTTGGAGAGCCCCTTGCAAGGACC
AGCAGTGGCAGTTCTCCAGCTCCAGCACCCCTAGCTCCAGCCCAGCTCCCAAGGAGGCTCCAGCCTGGATCA
CAAGCAGGATCCAGTGAACGCACCAGAGTTTCAGCCAACAGTAAGTCAGAAGGATCACCTGTGCTTCCCCATGAG
CCTGCCAAGGTGAAACCAGAAGAATCCAGGGACATTACCGGGCCAGTCGACCAGCTAGCTACAAAAAAGCTATA
GATGAGGATCTGACGGCATTAGCCAAAGAACTAAGAGAACTCCGGATTGAAGAAACAAACCGCCCAATGAAGAAG
GTGACTGATTACTCTCCTCCAGTGAGGAGTCAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACC
CATGATGGGACAGTGGCTGTCAGCGACATACCCAGACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTAC
AATGTGGGAATGGTGGGGACGCATGGGCTGGAGACCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAA
GGAACCTTGATGATTAGAGAGACGTCTGGAGAGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGC
CACATCAACCTCCCTGACCTGGTGCAGCAGAGCCATTCTCCAGCTGGAACCCGACTGAGGGACTGGGGCGCGTC
TCAACCCATTCCCAGGAGATGGACTCTGGGACTGAATATGGCATGGGGAGCAGCACCAAAGCCTCCTTCACCCCC
TTTGTGGACCCAGAGTATACCAGACGTCTCCCACTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGCAGCT
CTGTTTACTAGCGAACTTCTTAGGCAAGAACAGGCCAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTA
AACCCAACCAACATTCGGCCTCATAGCGACACACCAGAAATCAGAAAATACAAGAAACGATTCAACTCAGAAATA
CTTTGTGCAGCTCTGTGGGGTGTAACCTTCTGGTGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTG
CAAGGCAAAGTCTATAATCTGATCAACCGGAGGCGATTTACGAGATGGATGTGCTAGAGGGACTGAATGTCCTT
GTGACAATTTAGGAAAGAAGAATAAGCTACGAGTTTACTATCTTTTCATGGTTAAGAAACAGAATACTACATAAT
GACCCAGAAGTAGAAAAGAACAAGGCTGGATCACTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTT
AAATATGAAAGGATCAAATTTTTGGTGATTGCCTTAAAGAATGCTGTGGAATATATGCTTGGGCTCCTAAACCG
TATCATAAATTCATGGCATTAAAGTCTTTTGAGATCTCCAGCACAAGCCTCTGCTAGTTGATCTCACGGTAGAA

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FIGURE 1632B

GAAGGTCAAAGATTAAAGGTTATTTTTGGTTCACACACTGGTTTCCATGTAATTGATGTTGATTCAGGAAACTCT
TATGATATCTACATACCATCTCATATTCAGGGCAATATCACTCCTCATGCTATTGTCATCTTGCCTAAAACAGAT
GGAATGGAAATGCTTGTTTGCTATGAGGATGAGGGGGTGATGTAAACACCTATGGCCGGATAACTAAGGATGTG
GTGCTCCAATGGGGAGAAATGCCACGTCTGTGGCCTACATTCATTCCAATCAGATAATGGGCTGGGGCGAGAAA
GCTATTGAGATCCGGTCAGTGGAACAGGACATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAG
TTTCTATGTGAAAGAAATGATAAGGTATTTTTTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATG
ACCTCAACAGAAATTCCATGATGAACTGGTAA

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FIGURE 1633

MASDSPARSLDEIDLSALRDPAGIFELVELVGNNGTYGQVYKGRHVKTGQLAAIKVMDVTGDEEEEEKQEINMLKK
YSHHRNIATYYGAFIKKNPPGMDDQLWLVMFCGAGSVTDLIKNTKGNTLKEEWIAYICREILRGLSHLHQHKVI
HRDIKGQNVLLTENAEVKLVDFGVSAQLDRTVGRNRTFIGTPYWMAPEVIACDENPDATYDFKSDLWSLGITAIE
MAEGAPPLCDMHPMRALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPATEQLMKHPFIRDQPNERQVRI
QLKDHIDRTKKKRGEKDETEYEYSGSEEEEEENDSGEPSSILNLPGESTLRRDFLRLQLANKERSEALRRQQLEQ
QQRENEEHKRQLLAERQKRIEEQKEQRRRLEEQQRRREKELRKQQEREQRRHYEEQMRREEERRRAEHEQEYIRRO
LEEEQRQLEILQQQLLHEQALLLEYKRKQLEEQRQAERLQRQLKQERDYLVSLOHQRQEQRPVEKKPLYHYKEGM
SPSEKPAWAKEVEERSRLNRQSSPAMPHKVANRISDPNLP RSEFSISGVQPARTPPMLRPVDPQIPHVLAVKS
QGPALTASQSVHEQPTKGLSGFQEALNVTSHRVEMPRQNSDPTSENPLPTRIEKFDRSSWLRQEEDIPPKVPQR
TTSISPALARKNSPGNGSALGPRLGSPFIRASNPD LRRTEPILESPLQRTSSGSSSSSSSTPSSQPSSQGGSQPGS
QAGSSERTRVRANSKSEGSFVLPHEPAKVKEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKK
VTDYSSSSSEESSESSEEEEEEDGESETHDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISRE
GTLMIRETSGEKKRSGHSDSNGFAGHINLPDLVQQSHSPAGTPTTEGLGRVSTHSQEMDSGTEYMGSSSTKASFTP
FVDPRVYQTSPTDEDEEDEESSAAALFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEI
LCAALWGVNLLVGTENGLMLLDRSGQGKVYNLINRRRFQQMDVLEGLNVLVTISGKKNKLRVYYLSWLRNRI LHN
DPEVEKKQGWITVGDLEGCIHYKVVKYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVE
EGQRLKVIFGSHTGFHVIDVDGNSYDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDV
VLQWGEMPTSVAYIHSNQIMGWGEKAIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFM
TLNRNSMMNW

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FIGURE 1634

ATGGATATGTTTCCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTGAGAGGCCAACAGAC
CCACCGTGC GGAGGTCGTTTGAATTCCAAAGATGCTGGCTATATCACCTCTCCCGGTTACCCCCAGGACTACCCC
TCCCACCAGAACTGCGAGTGGATTGTTTACGCCCCCGAACCCAACCAGAAGATTGTCCTCAACTTCAACCCCTCAC
TTTGAAATCGAGAAGCACGACTGCAAGTATGACTTTATCGAGATTGGGGATGGGGACAGTGAATCCGCAGACCTC
CTGGGCAAACACTGTGGGAACATCGCCCCGCCACCATCATCTCCTCGGGCTCCATGCTCTACATCAAGTTCACC
TCCGACTACGCCCCGGCAGGGGGCAGGCTTCTCTCTGCGCTACGAGATCTTCAAGACAGGCTCTGAAGATTGCTCA
AAAACTTCACAAGCCCCAACGGGACCATCGAATCTCCTGGGTTTCTGAGAAGTATCCACACAACCTGGACTGC
ACCTTTACCATCCTGGCCAAACCCAAGATGGAGATCATCCTGCAGTTCCTGATCTTTGACCTGGAGCATGACCCT
TTGCAGGTGGGAGAGGGGGACTGCAAGTACGATTGGCTGGACATCTGGGATGGCATTCCACATGTTGGCCCCCTG
ATTGGCAAGTACTGTGGGACCAAAACACCCTCTGAACCTCGTTCATCGACGGGGATCCTCTCCCTGACCTTTCAC
ACGGACATGGCGGTGGCCAAGGATGGCTTCTCTGCGCTTACTACCTGGTCCACCAAGAGCCACTAGAGAACTTT
CAGTGCAATGTTCTCTGGGCATGGAGTCTGGCCGGATTGCTAATGAACAGATCAGTGCCTCATCTACCTACTCT
GATGGGAGGTGGACCCCTCAACAAAGCCGGCTCCATGGTGATGACAATGGCTGGACCCCCAACTTGGATTCCAAC
AAGGAGTATCTCCAGGTGGACCTGCGCTTTTTTAACCATGCTCACGGCCATCGCAACACAGGGAGCGATTTCAGG
GAAACACAGAATGGCTACTACGTCAAATCCTACAAGCTGGAAGTCAGCACTAATGGAGAGGACTGGATGGTGTAC
CGGCATGGCAAAAACCACAAGGTATTTCAAGCCAACAACGATGCAACTGAGGTGGTTCTGAACAAGCTCCACGCT
CCACTGCTGACAAGGTTTGTAGAAATCCGCCCTCAGACCTGGCACTCAGGTATCGCCCTCCGGCTGGAGCTCTTC
GGCTGCCGGGTACAGATGCTCCCTGCTCCAACATGCTGGGGATGCTCTCAGGCCTCATTGCAGACTCCCAGATC
TCCGCTCTTCCACCCAGGAATACCTCTGGAGCCCCAGTGCAGCCCGCCTGGTCAGCAGCCGCTCGGGCTGGTTC
CCTCGAATCCCTCAGGCCAGCCCGGTGAGGAGTGGCTTCAGGTAGATCTGGGAACACCCAAGACAGTGAAAGGT
GTCATCATCCAGGGAGCCCGCGGAGGAGACAGTATCACTGCTGTGGAAGCCAGAGCATTGTGCGCAAGTTCAA
GTCTCTACAGCCTAAACGGCAAGGACTGGGAATACATTAGGACCCCAGGACCCAGCAGCCAAAGCTGTTTCGAA
GGGAACATGCACTATGACACCCCTGACATCCGAAGGTTTGACCCCATTCGGGCACAGTATGTGCGGGTATACCCG
GAGAGGTGGTCGCCGGCGGGGATTGGGATGCGGCTGGAGGTGCTGGGCTGTGACTGGACAGACTCCAAGCCCACG
GTAAAAACGCTGGGACCCACTGTGAAGAGCGAAGAGACAACCACCCCTACCCACCGAAGAGGAGGCCACAGAG
TGTGGGGAGAACTGCAGCTTTGAGGATGACAAAGATTTGCAGCTCCCTTCGGGATTCAATTGCAACTTCGATTT
CTCGAGGAGCCCTGTGGTTGGATGTATGACCATGCCAAGTGGCTCCGGACCACCTGGGCCAGCAGCTCCAGCCCA
AACGACCGGACGTTTCCAGATGACAGGAATTTCTTGCGGCTGCAGAGTGACAGCCAGAGAGAGGGCCAGTATGCC
CGGCTCATCAGCCCCCTGTCCACCTGCCCCGAAGCCGGTGTGCATGGAGTTCCAGTACCAGGCCACGGGCGGC
CGCGGGGTGGCGCTGCAGGTGGTGCGGGAAGCCAGCCAGGAGAGCAAGTTGCTGTGGGTATCCGTGAGGACCAG
GGCGGCGAGTGGAAGCACGGGCGGATCATCCTGCCCAGCTACGACATGGAGTACCAGATTGTGTTTCGAGGGAGTG
ATAGGGAAAGGACGTTCCGGAGAGATTGCCATTGATGACATTCGGATAAGCACTGATGTCCCACTGGAGAACTGC
ATGGAACCCATCTCGGCTTTTGCAGTGGACATCCCAGAAATACATGAGAGAGAAGGATATGAAGATGAAATTGAT
GATGAATACGAGGTGGACTGGAGCAATTCTTCTTGCAACCTCAGGGTCTGGCGCCCCCTCGACCGACAAAGAA
AAGAGCTGGCTGTACACCCTGGATCCCATCCTCATCACCATCATCGCCATGAGCTCACTGGGCGTCTCTCTGGGG
GCCACCTGTGCAGGCCTCCTGCTCTACTGCACCTGTTCTACTCGGGCTGAGCTCCCGAAGCTGCACCACACTG
GAGAACTACAACCTCGAGCTCTACGATGGCCTTAAGCACAAAGGTCAAGATGAACCACCAAAAGTGCTGCTCCGAG
GCAT**TGA**

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FIGURE 1635

MDMFPLTWVFLALYFSRHQVRGQPDPPCGRLNSKDAGYITSPGYPDYPSHQNCEWIVYAPEPNQKIVLNFNPH
FEIEKHDCKYDFIEIRDGDSEADLLGKHCGNIAPPTIISSGSMLYIKFTSDYARQGAGFSLRYEIFKTGSEDCS
KNFTSPNGTIESPGFPEKYPHNLDCTFTILAKPKMEIILQFLIFDLEHDPLQVGEGDCKYDWLDIWDGIPHVGPL
IGKYCGTKTPSELRSSTGILSLTFHTDMAVAKDGFSAARYLVHQEPLNFQCNVPLGMESGRIANEQISASSTYS
DGRWTPQQSRLHGDDNGWTPNLDNKEYLQVDLRFLTMLTAIATQGAISRETQNGYYVKSYLEVSTNGEDWMVY
RHGKNHKVFQANNDATEVVLNKLHAPLLTRFVRIRPQTHSGIALRLELFGCRVTDAPCSNMLGMLSGLIADSQI
SASSTQEYLWSPSAARLVSSRSGWFPRIPQAQPGEEWLQVDLGTPTVKGVIIQGARGGDSITAVEARAFVRKFK
VSYSLNGKDWEYIQDPRTQQPKLFEGNMHYDTPDIRRFDPIPAQYVRVYPERWSPAGIGMRLEVLCGDWTD SKPT
VKTLGPTVKSEETTPYPTTEEATECGENCSFEDDKDLQLPSGFNCNFDLFLEPCGWMYDHAKWLRRTTWASSSSP
NDRTFPDDRNFRLRLQSDSQREGQYARLISPPVHLPRSPVCMFQYQATGGRGVALQVVREASQESKLLWVIREDO
GGEWKHGRIILPSYDMEYQIVFEGVIGKGRSGEIAIDDIRISTDVPLENCMEPISAFAVDIPEIHEREGYEDEID
DEYEVDWSNSSSATSGSGAPSTDKEKSWLYTLDPILITIIAMSSLGVLLGATCAGLLLYCTCSYSGLSSRSCTTL
ENYNFELYDGLKHKVKMNHQKCCSEA

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FIGURE 1636

GTGCGGGTTTCGGTTGGAGGACTCGTTGGGGAGGTGGCCTGCGCTTGTTAGAGACTGCATCCCCGAGACGATGGCG
GAGGGAGATAATCGCAGCACCAACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGCAAGGATGGGGA
GAAGTGATGCTGATGGCTGATAAAGTCCTCCGATGGGAAAGAGCCTGGTTTTCCACCTGCCATCATGGGTGTGGTT
TCTTTGGTGTCTGATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTTTCCTGTTTTGTATGTTTTTG
TGCTTGGCTGACTACCTTGTTCCCATTTCTAGCGCCTAGAATTTTTGGCTCCAATAAATGGACCACTGAACAACAG
CAAAGATTCCATGAAATTTGCAGCAATCTAGTAAAACTCGACGCAGAGCTGTGGGTTGGTGAAACGCCTCTTC
ACACTAAAGGAAGAAAAACCTAAGATGTACTTCATGACCATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGA
CAACAAGTCCACAACCTGCTTCTCACCTACCTGATAGTGACTTCCTTACTATTGCTTCTTGACTAAACCAACAT
GGAATCATTTTGAAGTACATTGGAATGGCCAAGAGGGAGATAAACAACCTTCTCAAACAAAAAGAAAAAGAAAAAC
GAATGAATTCATCTGCTTTAATCAGTGTGATTAATGCAGCACCCATTGCCCGGGAACCGTTTCTGCTGTACTATC
TGGATACTAAAATGTTACGGAAGTAGCTCTTTGTTCTCCCTCACTCTGCCCTTAGTTAATAGAAATTCAGACTCG
CCAAGTAAGGCTTCGTGCATAGTGTCTTCATGTCGCGTATAGTTGAGCGGTTCTTAGCAGTTGGCTTCATGGAC
AACTCATTAGTGTTTTGACTTTTCTTACCCAGCGTTAATTGAATTCCTGCTTTTAGACAACCTTCTTTTGTAGT
GGTGAACCTTGCCCTTTAGTACAGTTCAAGTGAATCTGGATAATTGTTTCATCTTTGCTTTAGCTTAGATACCATG
TAGTGGTCTGTGGCTACAGGAAGCTGGTTCTGTCTGCTTCCACAGTCTGCTTAAAAAACTGTCTGACTTCGTGAA
TATAGAGACCAAGTTTACCCTTCTGATGAAGAGACCAATTAAGATTCAATTCCTCATTCTGTTTCTTCCAGTGG
GAGAAGAGTCCCCATGAAATAAGATGAAACTGATTCCATGCACTAGTACATGTAGGCTTCTCCCTTGTGCAAAGC
TTAGCAATTTGTAGGAACTTTGATCTTTTTGTCCAAGAAAAGGAATGTCTGACAGGCTTAAGCTTTTCGTCCCCT
TGCACTTAGACTCGAAGTTAGTAAATCCTTAAAGGCTTTTTAATAGCAGACTTCCAAAAGATTGCATTTAGGATT
TCTAGCATGCTTTTAATTTTCAATTTTCACTGACATTAGCTATAGTATACAGTAGGTTAAGACTCATGTCTATG
ACTTTCACCTCTAAGACTGGCAAAAGGACAGCAGTCTTCTATGTTTAGTCAATATTCATTTTCACTAGAAAGATAATC
TTATCTAATTTTTTGAAGACCAGAATAAGCCTTTTTAAGGTAAACCTCAAAATTATCATTATTTATGGTAATACTGACCA
TTTTAGTCCCCTAGGTTTGACATGGGAGATAGTGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCT
GAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATGATAGTTGGCCTCTGGTCTACAAAGATTTCTATA
ACTCCTTGGAAGCTTCTTATAATCATTCTTAACTTCTTGGTAGCTAGAAATTTAGAGTAGTTGAAATCTTTAGG
AATGTACTTCTGAGGGCCAAAAAATGTGACTGACGGGAACAATTCTTAACTGATTAAGTACTAGCTGTAATATAGTT
TTGTGAATTTATTGCACTGATGTTGTACCTTGTGGTATATCTGTCCCTATTAAATAAGTGTGTTTTCTCCTCTT
TAATATTGCTGTGAACAGTGGTGCCCATTTGTAGCATATGTTTGATTTTTTTTTTATTATTTTATAAGAAAACTACG
TTAATTTTACCTTACTTTTCAATTGTAAATAAGCCTGTCTTCCTATCTGGATTTTTTGTGTGCATACATATTCTACT
GATTAACACTTTTTGCAGTTTTAATCCTGTATTATTCTTCTACTTTGTTTTGTGTAAAAGGGGAAAAAATAAAA
AAAGCTGGAATCTTCATGTCTC

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FIGURE 1637

VRVSVGGLVGEVACACRDCIPETMAEGDNRSTNLLAAETASLEEQLQGWGEVMLMADKVLRWERAWFPPAIMGVV
SLVFLIIYYLDPSVLSGVSCFVMFLCLADYLVPI LAPRIFGSNKWTTEQQQRFHEICSNLVKTRRRAVGWWKRLF
TLKEEKPKMYFMTMIVSLAAVAWVGQVHNLLLTYLIVTSLLLLPGLNQHGIIILKYIGMAKREINKLLKQKEKKN
E

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FIGURE 1638

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTTCGCCCTTTCAGGCAGAAATTGCCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCA
TTGGACAAAAATCCGGTATGAAAGCTTGACAGATCCCGAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAAACCTT
ATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATG
ATTGGCCAGTTCGGTGTTGGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAGAAAGAGTCCGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAAGAGGATGGTGACAAGAAGAAGAAGAAGATT
AAGGAAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAAACAGA
AAGAAAAAGAACACATCAAATTGTATGTACGCAGAGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAACTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAACTGGCGGAAGAT
AAAGAGAACTACAAGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTCTCTCAAGGACTAC
TGCACCAGAAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATTTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTGAGTCACCAAGAAGGCCTGGAACCTTCAGAGGATGAA
GAAGAGAAAAAGAGCAGGAAGAGAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTGACAAGCACATATGGC
TGGACAGCAAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCTGACCATTCCATTATTGAGACCTTAAGGCAAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAAGTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTAA

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FIGURE 1639

MP EETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFY SNKEIFLRELISNSSDALDKIRYESLTDP SKLDSGKE
LHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVVRTDTGEP MGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKE
RDKEVSDDEAE EKEDKEEEEKEEEEKESDKPEIEDVGSDEEEEEKDGD KKKKKKIKEKYIDQEELNKTPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFI RGVVDS EDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVS LKDYCTRMKENQKHIIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPI
DEYCVQQLKEFE GKTLSVTKEGLELPED EEEKKKQEEKKT FENLCKIMKDILEKKVEKV VVSNRLVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSG
FSLED PQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEEVD

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FIGURE 1640

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCCAAATA
ACCCCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTTCATGAACCCCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCA
GCGTCCTCCTTGGGGTTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGAGAGAAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCCGAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTTTCAGAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGGAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCTTATCCTGGAACAGATGCAGAAGGACCCCGAGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGGTTGATGACTTGTTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAGAGGAGCTGGGACCGCGGCAGCAGCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTTGTGCCGCGCTGCCTCTG
GGCCCTCCCGACACACGCATGGTCTCTTCACCGCTGCCCTCGAGTTCCATGTCTCTTTCCCTGCCCCCTAGTTGC
TGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTTATTTGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGT
TCTTCCAGCCTCAGGTCCCAGCTGTCTACGTTGTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGGTTATAAC

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FIGURE 1641

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPDWGKGY
SRKAAALEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTRTLSDP
TYRELIEQLRNKPSDLGTLQDPRIMTTLSVLLGVDLGSMDEEEIATPPPPPPPKKETKPEPMEEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
KAYARIGNSYFKEEKYKDAIHFYNKSLAEHRTPDVLKKCQQA EKILKEQERLAYINPD LALEEKNGNECFQKGD
YPQAMKHYTEAIKRNP KDAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAAALEAMKD YTKAMDV
YQKALDLDSSCKEADGYQRCMMAQYNRHDSPEDVKRRAMADPEVQQIMSDPAMRLILEQMOKDPQALSEHLKNP
VIAQKIQKLMDVGLIAIR

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FIGURE 1642

AAGCAGTCTCAAGCCTGCCGCAGGGAGAAGATGGCGGTCGCCGTGAGAACTTTGCAGGAACAGCTGGAAAAGGCC
AAAGAGAGTCTTAAGAACGTGGATGAGAACATTTCGCAAGCTCACCGGGCGGGACCCGAATGATGTGAGGCCCATC
CAAGCCAGATTGCTGGCCCTTTCTGGTCCTGGTGGAGGTAGAGGACGTGGTAGTTTATTGCTGAGGCGTGATTCTC
TCAGATAGTGGAGGACCCCCAGCCAAACAGAGAGACCTTGAAGGGGCAGTCAGTAGGCTGGGCGGGGAGCGTCGG
ACCAGAAGAGAATCACGCCAGGAAAGCGACCCGGAGGATGATGATGTTAAAAAGCCAGCATTGCAGTCTTCAGTT
GTAGCTACCTCCAAAGAGCGCACACGTAGAGACCTTATCCAGGATCAAAATATGGATGAAAAGGGAAAGCAAAGG
AACCGACGAATATTTGGCTTATTGATGGGCACCTTTCAGAAAATTTAAACAAGAATCCACTGTTGCTACTGAAAGG
CAAAACAGGCGCCAGGAAATTGAACAAAACTTGAAGTGCAGGCGGAAGAAGAAAGAAAGCAGGTTGAAAATGAA
AGGAGAGAACTGTTTGAAGAGAGGCGTGCTAAACAGACAGAAGTGCAGGCTTTTAGAACAGAAGGTTGAGCTTGCG
CAGCTGCAAGAAGAATGGAATGAACATAATGCCAAAATAATTAATATATAAGAACTAAGACAAAGCCCCATTTG
TTTTATATTCCCGGAAGAATGTGTCCAGCTACCCAAAACTAATAGAAGAGTCACAGAGAAAAATGAACGCTTTA
TTTGATGGTAGACGCATCGAATTTGCAGAACAAATAAATAAAATGGAGGCTAGGCCTAGAAGACAATCAATGAAG
GAAAAAGAGCATCAGGTGGTGCCTAATGAAGAACACAAGGCGGAACAAGAAGAGGGTAAGGTGGCTCAGCGAGAG
GAAGAGTTGGTGGAGACAGGTAACCAGCACAATGATGTTGAAATAGAGGAAGCAGGAGAGGAAGAGGAAAAGGAA
ATAGGGATTGTTTCATAGTGTGTCAGAGAAAGAGCAGGAGGAGGAGGAACAAAAACAGGAAATGGAGGTTAAGATG
GAGGAGGAAACTGAGGTAAGGGAAAGTGAGAAGCAGCAGGATAGTCAGCCTGAAGAAGTTATGGATGTGCTAGAG
ATGGTTGAGAATGTCAAACATGTAATTGCTGACCAGGAGGTAATGGAACTAATCGAGTTGAAAGTGTAGAACCT
TCAGAAAATGAAGCTAGCAAAGAATTGGAACCAGAAAATGGAATTTGAAATTGAGCCAGATAAAGAATGTAAATCC
CTTTCTCCTGGGAAAGAGAATGTCAGTGCTTTAGACATGGAAAAGGAGTCTGACGAAAAAGAAGAAAAAGAATCT
GAGCCCCAACCTGAGCCTGTGGCTCAACCTCAGGCTCAGTCTCAGCCCCAGCTCCAGCTTCAATCCAGTCCGAG
CCACAGCCTCAGCTACAACCTGAGCCTGCTCAACCTCAGCTTCAGTCTCAGCCCCAGCTTCAGCTTCAATCCAG
TGCCATGCAGTACTCCAGTCCCATCCTCCCTCTCAACCTGAGGATTTGTCTATTAGCTGTTTTACAGCCAACACCC
CAAGTTACTCAGGAGCATGGGCATTTTCTACCTGAGAGGAAGGATTTTCTGTAGAGTCTGTAAACTGACTGAG
GTACCAGTAGACCCAGTCTTGACAGTACATCCAGAGAGCGAGAGCGAAACCAATACTAGGAGCAGGAGTAGAGGT
CGAACTAGAAATAGAACCACCAAGAGTAGAAGTGAAGCAGTAGCAGTAGCAGTTCTAGTAGCAGTTCAACCAGT
AGCAGCAGTGGAAGTAGTTCCAGCAGTGGAAGTAGTAGCAGTCGCAGTAGTTCCAGTAGCAGCTCCAGTACAAGT
GGCAGCAGCAGCAGAGATAGCAGCAGCAGCACTAGTAGTAGTAGTGAGAGTAGAAGTCGGAGTAGGGGCCGGGGA
CATAATAGAGATAGAAAGCACAGAAGGAGCGTGGATCGGAAGAGAAGGGATACTTCAGGACTAGAAAGAAGTCAC
AAATCTTCAAAAGGTGGTAGTAGTAGATACAAAAGGATCAAAGGATAAGAATTCCCGGTCCGACAGAAAGAGG
TCTATATCAGAGAGTAGTCGATCAGGCAAAAGATCTTCAAGAAGTGAAAGAGACCGAAAATCAGACAGGAAAGAC
AAAAGGCGTTAATGGAAGAAGCCAGGCTTTCTTAGCCATTCTTTGCAGCAGAAGATTTCTTGATGAAAAGGATT
ACCTTTCCTTGTAAGAGGATGCTGCCTTAAGAATTGCATGTTGTAAAAATCTTTTGAAGATACAGACTGTT
TGTTTACCAGACATTCTTGACTTTTGCATAATTTTGTAAGAGTTATTTATCAAATTATGTGAGGTTCCAAAA
TATGTAAAAATGATAATAATAAAAAAGATTAACATCCCTTGTCATCTTTTTTAAATATCCTATACTCTTCAGTA
AGAATCTGTATATTTTAATAGGCAAATCTTTAAGTCTGTTCCCTTCAATTCTGTATCATACATTGCT

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FIGURE 1643

MAVAVRTLQEQLKAKESLKNVDENIRKLTGRDPNDVRFIQARLLALSGPGGGRGRGSLLLRRGFSDSGGPPAKQ
RDLEGAVSRLGGERRTRRESRQESDPEDDDVKKPALQSSVVATSKERTRRDLIQDQNMDEKKGQRNRRIFGLLMG
TLQKFQESTVATERQNRREQIEQKLEVQAEEERKQVENERRELFEERRAKQTELRLLLEQKVELAQLQEEWNEHN
AKIIKYIRTKTKPHLFYIPGRMCPATQKLIIESQRKMNALFDGRRIEFAEQINKMEARPRRQSMKEKEHQVVRNE
EHKAEQEEGKVAQREEELVETGNQHNDVEIEEAGEEEEEKEIGIVHSDAEKEQEEEEQKQEMEVKMEETEVRERE
KQQDSQPEEVMVDVLEMVENVKHVIADQEVMETNRVESVEPSENEASKELEPEMEFEIEPDKECKSLSPGKENVSA
LDMEKESDEKEEKESEPQPEPVAQPQAQSQPQLQLQSQSEPQPQLQPEPAQPQLQSQPQLQLQSQCHAVLQSHPP
SQPEDLSLAVLQPTPQVTQEHGHFLPERKDFPVESVKLTEVPVDPVLTVHPESSEETNTRSRSRGRTRNRTTKSR
SRSSSSSSSSSSSTSSSSGSSSSSGSSSSSRSSSSSSSSSTSGSSSRDSSSTSSSSSESRSRSRGRGHNDRKHHRS
VDRKRRDTSGLERSHKSSKGGSSRDTKGSKDKNSRSDRKRSISESSRSGKRSSRSEDRKSDRKDKRR

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FIGURE 1644

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCGTCGCAGCCCCGCCGTAGCCGCCTCCGAG
CCCCGCCCCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTTCATCCTTCTCACCTAACACTGGGAAAAAAAAATGCTAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACCTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCTGACGCCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAGTACACTGTCAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAAATGAATACTGTACAATTGTTTAAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAAGGTCCCTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACCTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTCTGAGAATCGAACCTTGGTTCCCTAACCCTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAACTCACCTGAATGGGACTTTTTTTAGACAGATCTTCATGACCTGTTCCCACCCAGTTCATCATCATC
TCTTTTACACCAAAGGTCTGCAGGGTGTGGTAACTGTTTCTTTTGTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTCAGGACTTATTCCTTCTTGTGTTGTGTTTTTTTTTGGCCCTTGCACCAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTTGTATTCTCACCCTCAATTTGTTTTTTAGCAGTTTAATGGGTACATTTTAGAGTCTTC
CATTTTGGTGAATTAGATCCTCCCCTTCAAATGCTGTAATTAACAACACTTAAAAAAGTTGAATAAAATATTGA
AACCTC

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FIGURE 1645

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGSLET KYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAKIKTG YKREHINLGCDMDFDIAGPSIRGALVLYEGWL
AGYQMNFFETAKSRVTQSNFAVG YKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLYTQTLKPGIKLTL SALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 1646

GGCACGAGGGGGAAGCAGGGGTAGCGGAGCCATGGGGGACGCTCCCAGCCCTGAAGAGAACTGCACCTTATCAC
CCGGAACCTGCAGGAGGTTCTGGGGGAAGAGAAGCTGAAGGAGATACTGAAGGAGCGGGAACTTAAATTTACTG
GGGAACGGCAACCACGGGCAAACCACATGTGGCTTACTTTGTGCCCATGTCAAAGATTGCAGACTTCTTAAAGGC
AGGGTGTGAGGTAACAATTCTGTTTTCGGGACCTCCACGCATACCTGGATAACATGAAAGCCCCATGGGAACCTTCT
AGAACTCCGAGTCAGTTACTATGAGAATGTGATCAAAGCAATGCTGGAGAGCATTGGTGTGCCCTTGGAGAAGCT
CAAGTTCATCAAAGGCACTGATTACCAGCTCAGCAAAGAGTACACACTAGATGTGTACAGACTCTCCTCCGTGGT
CACACAGCAGGATTCCAAGAAGGCTGGAGCTGAGGTGGTAAAGCAGGTGGAGCACCTTTGCTGAGTGCCCTCTT
ATACCCCGGACTGCAGGCTTTGGATGAAGAGTATTTAAAAGTAGATGCCCAATTTGGAGGCATTGATCAGAGAAA
GATTTTCACCTTTGCAGAGAAGTACCTCCCTGCACTTGGCTATTCAAACGGGTCCATCTGATGAATCCTATGGT
TCCAGGATTAACAGGCAGCAAAATGAGCTCTTCAGAAGAGGAGTCCAAGATTGATCTCCTTGATCGGAAGGAGGA
TGTGAAGAAAAAACTGAAGAAGGCCTTCTGTGAGCCAGGAAATGTGGAGAACAATGGGGTTCTGTCTTTCATCAA
GCATGTCTTTTTTCCCCTTAAGTCCGAGTTTGTGATCCTACGAGATGAGAAATGGGGTGGAAACAAAACCTACAC
AGCTTACGTGGACCTGGAAAAGGACTTTGCTGCTGAGGTTGTACATCCTGGAGACCTGAAGAATTCTGTTGAAGT
CGCACTGAACAAGTTGCTGGATCCAATCCGGGAAAAGTTAATACCCCTGCCCTGAAAAAACTGGCCAGCGCTGC
CTACCCAGATCCCTCAAAGCAGAAGCCAATGGCCAAAAGGCCCTGCCAAGAATTCAGAACCAGAGGAGGTATCCC
ATCCCGGCTGGATATCCGTGTGGGAAAATCATCACTGTGGAGAAGCACCCAGATGCAGACAGCCTGTATGTAGA
GAAGATTGACGTGGGGGAAGCTGAACCACGGACTGTGGTGAGCGGCCTGGTACAGTTTCGTGCCCAAGGAGGAACT
GCAGGACAGGCTGGTAGTGGTGTGTGCAACCTGAAAACCCAGAAGATGAGAGGAGTCGAGTCCCAAGGCATGCT
TCTGTGTGCTTCTATAGAAGGGATAAACCGCCAGGTTGAACCTCTGGACCCTCCGGCAGGCTCTGCTCCTGGTGA
GCACGTGTTTGTGAAGGGCTATGAAAAGGGCCAACCAGATGAGGAGCTCAAGCCCAAGAAGAAAGTCTTCGAGAA
GTTGCAGGCTGACTTCAAATTTCTGAGGAGTGCATCGCACAGTGGAAGCAAACCAACTTCATGACCAAGCTGGG
CTCCATTTCTGTAAATCGCTGAAAGGGGGGAACATTAGCTAGCCAGCCAGCATCTTCCCCCTTCTTCCACCA
CTGAGTCATCTGCTGTCTCTTCAGTCTGCTCCATCCATCACCCATTTACCCATCTCTCAGGACACGGAAGCAGCG
GGTTTGGACTCTTTATTTCGGTGCAGAACTCGGCAAGGGGCAGCTTACCCTCCCAGAACCAGGATCATCCTGTC
TGGCTGCAGTGAGAGACCAACCCCTAACAAGGGCTGGGCCACAGCAGGAGTCCAGCCCTACCTTCTTCCCTTGG
CAGCTGGAGAAAATCTGGTTTCAATATAACTCATTTAAAAATTTATGCCACAGTCCTTATAATTGGAAAAATACTG
GTGCCCAGGTTTTCTTGGAGTTATCCAAGCAGCTGCGCCCCTAGCTGGGATCTGGTACCTGGACTAGGCTAATTA
CAGCTTCTCCCCAACAGGAACTGTGGGATTTGAAAAGGAAAGGGAAGGGAACAGAGAACCTAGTGGTCTACC
AAGTGGTTGGCAACTTTCCCAATGTCTGCTTACTCTGAGGCTTGGCACTGGGGGCCAGGGCCTGCCCCAGGGCTC
CTGGAATTTCCCTTGATCCAGCTAGGCTGGGACACTCCCTAAATCAGCTGCGTGTGTTAGCATCAGGCAGAAATG
AATGGCAGAGAGTGATTCTGTCTTCATAGAGGGTGGGGTACTTCTCCATAAGGCATCTCAGTCAAATCCCCATCA
CTGTCATAAATTCAAATAAAATGTCTGAACAAGGGAAAAA

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FIGURE 1647

MGDAPSP EEKLHLITRNLQEVLGEEKLKEILKERELKIYWG TATTGKPHVAYFVPMSKIADFLKAGCEVTILFAD
LHAYLDNMKAPWELLELRVSY YENVIKAMLESIGVPLEKLF IKGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGA
E VVKQVEHPLL SGLLYPGLQALDEEY LKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGLTGSKMSS
SEEESKIDLLDRKEDVKKKLKKAFC EPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFA
AEVVHPPGDLKNSVEVALNKLLDP IREKFNTPALKKLASAAYPDPSKQKPMAGPAKNSEPEEVIPSRLDIRVGKI
ITVEKH PDADSLYVEKIDVGEAEPR TVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASIEGINR
QVEPLDPPAGSAPGEHV FVKGYEKGQPDEELKPKKKVFEKLQADFKI SEECIAQWKQTNFMTKLGSISCKSLKGG
NIS

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FIGURE 1648A

GC GGC GGC GCG AGG CAG TAT GGT TTG AAG TGG TGA ACAT GGA TTTTCT CGG CTT CAC ATGT ACAG TCCT CCCCCA
GT GTGT GCG CGG AGA ACAC GGG CTAC AC GTAT GCG CT CAG TTC CAG CTATT CTT CAG ATG CTCT GGAT TTTG AGAC
GG AGC ACAA ATTGG ACCCTGT ATTTG ATTCTCC AC GGATGT CCG CGCTAG TTTG CGCCTGG CCACG ACAG CATG
CACCCTGG GGGGATGG TGAGGCTGT GGGTGCC GACAG CGG CACCAG CAGCGCTGTCTCCCTGA AGAACCG AGCGGC
CAGAACAACAAAACAG CGCAGAAGC ACAAACAAATCAGCTTTTAGTATCA ACCACGTGTCAAGGCAGGT CACGTC
CTCTGG CGTCAGCTACGG CGGCACTGT CAGCCTGCAGGATGCTGTGACTCGACGGCCTCCTGTATTGGACGAGTC
TTGGATTCTGTGAACAG ACCACAGTGG ACCACTTCTGGGGTCTTGATGATGATGGTGATCTTAAAGGTG GAAATAA
AGCTGCCATT CAGGGAACGGGGATGTGGGAGTCGCCGCCGCCACC GCGCACAACGGCTTCTCCTGCAGCAACTG
CAGCATGCTGTCCGAGCGCAAGGACGTGCTCAGGCGCACCCCGCGGCCCGGGCCCGTGTGAGAGTTTATTC
TAGGGACAGGAATCAAAAATGCGACGACTGTAAGGGCAAGAGGCACCTCGACGCGCACCCCGGTG GGGCAGGGAC
CCTCTGGC ACATCTGGGCATGTGCAGGTTACTTCTTGCTGCAGATTCTGCGCAGGATCGGAGCTGTGGGCCAGGC
TGTGTCCAGGACGGCGTGGTCCGCCCTTTGGCTGGCGTGGTTGCTCCAGGGAAGGCAGCCTCTGGAGTGTTCTG
GTGGCTGGGGATTGGATGGTACCAGTTTGTACTTTGATTTCTTGCTGAATGTGTTTCTTCTTACCAGGTGCCT
TCGAAACATCTGCAAGTTTTTAGTCTTGCTCATCCCACTCTTCTTTTACTAGCAGGTCTCTCCTTACGGGGCCA
GGGCAATTTCTTTTCGTTCTTGCCCGTGTGAACTGGGCAAGCATGCATAGAACACAGCGGGTGGATGACCCCCA
GGACGTGTTTAAACCCACGACTTCTCGCCTGAAGCAGCCTCTGCAGGGTGACAGTGAGGCTTTTCCGTGGCATTG
GATGAGTGGCGTGGAGCAGCAGGTGGCCTCTCTGTCTGGACAGTGCCACCACCATGGTGAGAATCTCCGAGAGCT
GACCACTTTGCTACAGAAGCTGCAGGCTCGGGTGGACCAGATGGAAGGCGGCGCTGCCGGGCCGT CAGCTTCGGT
CAGAGACGCTGTGGGACAGCCCCGAGGGAGACTGACTTTATGGCCTTTTACCAAGAACATGAAGTGCGTATGTC
ACACTTGGAAGATATTCTGGGAAAAC TGAGAGAAAAATCTGAGGCCATCCAGAAGGAAC TAGAACAGACCAAGCA
AAAAACAATCAGTGC GGTGGTGAGCAGCTCCTGCCCACAGTCGAGCACCTCCAGCTGGAGCTGGATCAGCTAAA
GTCAGAGCTGTCCAGCTGGCGACACGTGAAGACCGGTGTGAGACAGTGGATGCCGTACAAGAAAGAGTGGACGT
GCAAGTCAGAGAAATGGTGAACTCCTGTTTTCCGAAGATCAGCAAGGCGGTTCTCTGGAACAGCTGCTGCAGAG
GTTCTCATCAGTTTTGTGAGCAAAGGCGACTTG CAGACGATGCTGCGAGACCTGCAGCTGCAGATCCTGCGGAA
CGTCACCCACCAGTTTTCCGTGACCAAGCAGCTCCCAACCTCAGAAGCCGTGGTGTCTGCTGTGAGCGAGGCGGG
GGCGTCTGGAATAACAGAGGCGCAAGCAGTGCCATCGTGAACAGCGCCTTGAAGCTGTATTCCCAAGATAAGAC
CGGGATGGTGGACTTTGCTCTGGAATCTGGTGGTGGCAGCATCTTGAGTACTCGCTGTTCTGAAACTTACGAAAC
CAAAACGGCGCTGATGAGTCTGTTTGGGATCCCGCTGTGGTACTTCTCGCAGTCCCCGCGCGTGGTCAATCCAGCC
TGACATTTACCCCGGTAAC TGTGGGCATTTAAAGGCTCCCAGGGGTACCTGGTGGTGAGGCTCTCCATGATGAT
CCACCCAGCCGCCTTCACTCTGGAGCACATCCCTAAGACGCTGTCGCCAACAGGCAACATCAGCAGCGCCCCAA
GGACTTCGCCGTCTATGGATTAGAAAATGAGTATCAGGAAGAAGGGCAGCTTCTGGGACAGTTCACGTATGATCA
GGATGGGGAGTCGCTCCAGATGTTCCAGGCCCTGAAAAGACCCGACGACACAGCTTTCCAAATAGTGGAACCTTCG
GATTTTTTCTAACTGGGGCCATCCTGAGTATACCTGTCTGTATCGGTT CAGAGTTCATGGCGAACCTGTCAAGTG
AAGACACTACTCATTATTTTTGTACATTTTTGTATATACTGGGACAGCGTGAAACACTGGAATCCTTCATGGACG
AGGGCATATACAATGATGGGACAGTGCCACACTCCTTCAATAAACGTGGCTGCTGGCCAGAGGACGTGAGCGTGT
GACGGGCGCCTTGGCGCCACCTGTTGGGTGCTCACTGCCTCTGCAGGTGCAGAGGGGT CAGCAGCAGGAGAAGCG
TGTTGAACACGTGGCTCTCAGACACTCCTTGTTTTTAACGGGAAGCTCTTTGCATTTGCATTTCTCAACAAAGG
AGCAAAGCAGAGGAAGCTGAGAGTCTGGCGTGTTCTTGACGCTTTGGTCTTCAGCCTTGCACTGGCTCTTCTAAA
GGACTTTTGGAGGGCAGATAATTTTCATCTGTTAAATCCAACACACATTTCTTT CAGGGAAAAACAATGTCACCAA
ATTTTCAGAGTTCTAAACTCCTTTCTTCAAGCCGGAATTTTCTTTTTT CAGCACCAGTAGGTACTAAGTCTCC
AGATGGGGAAATAACTAAAATGTGTTTTTCTGCTTTGTTCTGCTCTTACTTCTGAGGAAGGTTTCCAGTCAGGACT
CGCTGTACCAATATCCATGGAGGAATATGGGAGCGTTTCGCTCTCCTTGTAGGCTGAAGTCAGTCTGACTTGAAG
GGGCCTGGTTTGGATCTAAGCAAACACCCAGATGGGGTTCTCTGGTCTCAGCAAGGCTTTTCTGTTGGGAGTCA
CAGTAAACAGAAACCCAAAAATCTCATCTGGGTGTTTT CAGGGCTTGTTTTGAGTTTTGCTGAATAGGGAGCGC
AAGACGCCCTGAGCCTCCCTCTCACTGGTGGTGATAAGAGGAGCCGTCTGGTGTGT CAGGGTCAGAACCCGTTA
CATTT CAGGACGATCCTTTTTCTT CAGCAGCATTTCTTACTGGCTGTGGCTGGAATCTGCCTTTTATCAGCT
GTCACCATTTCTCAGTGATTCTTGTGAGACTCTTTTTGGTTATAATTACTATTTAATATTTAGACTATTTTACTG
AGCAGACTTTATAAATGAGATATCTACAAGGCACTTAAAGTGTTACAGATGTTTTACCTTAAGAATTATTTAAGT

1848/2825
FIGURE 1648B

TGTGTTGGGTTAAGACAGTTTTTCAGTGTACCGTAAATGTTGTGTTTTTCAGAAAAAGACAAAACGATGGTGCTGAC
TGGTTTTCTGTATATTGCACAACAGTCCTCAAATACACTGATGTATGAAACTATTCATACATCAAGCAGCATTTT
TTTCACTCTCCTTAGAATTGGAACATATGCAGTTAAGGCAGATAAAATGTACAGATGTTTCATATATTACAGGTTA
CATATATAAATCAAATTTCTATATAAACTGATTTGGGATTTGGGGTGGAATATTTTGAATATTAATTTATT
TTTAAAGATGCAAGATAGGACTTTGTGCAATGTATTTTTGTAAATGCTTTTCAAATATCTGTCCTTGGTAGTGC
TTCTGCTGCTGCCACCAAATTGATAAGATGCTATTAAGAGGTTTAAATAAAGAGTTTAAATTTTTAAAGGG

1849/2825
FIGURE 1649

ACTGCTCTCAGTGAGAAGCGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCA
GCCCTAGGTGAGGCCAAGAAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACC
ATGAAGGAGGAACTGGACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACC
CGACTGGTGGAGATTGACAATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAC TGCGG
GCCCAGCATGAGGACCAGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCC
AGGCAGTCTGCTGAGAGGAACAGCAACCTGGTGGGGGCTGCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATC
GACAGCCTCTCTGCCAGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAG
GACTCACTGGCCCGTGAGCGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGG
GCAAGGATGCAGCAGCAGCTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCAC
GCCTACCGCAAGCTCTTGAGGGGCGAGGAGGAGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGT
GGCCGTGCTTCCTCTCACTCATCCCAGACACAGGGTGGGGGCGAGCGTCACCAAAAAGCGCAAACCTGGAGTCCACT
GAGAGCCGCAGCAGCTTCTCAGCAGCAGCAGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGC
AAGTTTGTCCGGCTGCGCAACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGA
GATGATCCCTTGCTGACTTACCGGTTCCCACCAAAGTTACCCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCT
GCAGGAGCTGGGGCCACCCACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAAC
AGCCTGCGTACGGCTCTCATCAACTCCACTGGGGAAGAAAGTGGCCATGCGCAAGCTGGTGCGCTCAGTGACTGTG
GTTGAGGACGACGAGGATGAGGATGAGGATGACCTGCTCCATCACCACCACGGCTCCCCTGCAGCAGCTCGGGG
GACCCCGCTGAGTACAACCTGCGCTCGCGCACCGTGCTGTGCGGGACCTGCGGGCAGCCTGCCGACAAGGCATCT
GCCAGCGGCTCAGGAGCCCAGGTGGGCGGACCCATCTCCTCTGGCTCTTCTGCCTCCAGTGTCACGGTCACTCGC
AGCTACCGCAGTGTGGGGGGCAGTGGGGGTGGCAGCTTCGGGGACAATCTGGTACCCGCTCCTACCTCCTGGGC
AACTCCAGCCCCCGAAGCCAGAGCCCCCAGAACTGCAGCATCATGTAATCTGGGACCTGCCAGGCAGGGGTGGGG
GTGGAGGCTTCCTGCGTCCTCCTCACCTCATGCCCACCCCTGCCCTGCACGTCATGGGAGGGGGCTTGAAGCCA
AAGAAAAATAACCCTTTGTTTTTTTTCTTCTGTATTTTTTTTTTCTAAGAGAAGTTATTTTTCTACAGTGGTTTTAT
ACTGAAGGAAAAACACAAGCAAAAAAAAAAAAAAAAAAGCATCTATCTCATCTATCTCAATCCTAATTTCTCCTCCCT
TCCTTTTCCCTGCTTCCAGGAACTCCACATCTGCCTTAAAACCAAAGAGGGCTTCCTCTAGAAGCCAAGGGAAA
GGGGTGCTTTTATAGAGGCTAGCTTCTGCTTTTCTGCCCTGGCTGCTGCCCCACCCCGGGGACCCCTGTGACATGG
TGCTGAGAGGCAGGCATAGAGGCTTCTCCGCCAGCCTCCTCTGGACGGCAGGCTCACTGCCAGGCCAGCCTCCG
AGAGGGAGAGAGAGAGAGAGAGAGGACAGCTTGAGCCGGGCCCCCTGGCTTGGCCTGCTGTGATTCCACTACACCTGG
CTGAGGTTCTCTGCCTGCCCCGCCCCAGTCCCCACCCCTGCCCCAGCCCCGGGGTGAGTCCATTCTCCCAGG
TACCAGCTGCGCTTGCTTTTCTGTATTTTATTTAGACAAGAGATGGGAATGAGGTGGGAGGTGGAAGAAGGGAGA
AGAAAGGTGAGTTTGAGCTGCCTTCCCTAGCTTTAGACCCTGGGTGGGCTCTGTGCAGTCACTGGAGGTTGAAGC
CAAGTGGGGTGCTGGGAGGAGGGAGAGGGAGGTCACTGGAAAGGGGAGAGCCTGCTGCACCCACCGTGAGGAGG
AAGGCAAGAGGGGGTGGAGGGGTGTGGCAGTTGGTTTTTGGCAAACGCTTAAAGAGCCCTTGCTCCTCCCATTTCCC
ATCTGCACCCCTTCTCTCCTCCCCAAATCAATACACTAGTTGTTTCT

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FIGURE 1650A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGGCGGCCCTCTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCGAGACATGAGGGCGGCCCGTGCTCTGCTGCCCCCTGCTGCTGCAGGCCTGCTGGACAGC
CGCGCAGGATGAGCCGGAGACCCCGAGGGCCGTGGCCTTCCAGGACTGCCCCGTGGACCTGTTCTTTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCCTTACCAAGCG
CTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAGCAGCGTGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCACCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACACGTACCGGCGCAACTTCACGGCGGCTGACTG
GGGCCAGAGCCGCGACGCAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
TGAGCAAGTGTGCTGCTCCTTCGAATGCCAGCCTGCAAGAGGACCTCCGGGCTCCGGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCCAGGAGAGAAGGGAGAAGCCGGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCAAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCGGGTTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGCGCCTTTGG
ACTGAAAGGAGAAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCCGGGAGACCAGGAGCTCGGGGACCATCTGGAGA
CGAGGGGCCAGCCGGAGAGCCTGGGCCCCCGGAGAGAAAAGGAGAGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCACGGGGGACCCAGGCCCGCGGGGACCAAGAGG
AGACCCTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAAGAGAAGGGCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCGACCCCTGGAGACCCGGGGCTGATGGGAGAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCCGGAACAGGGGCGCTCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGACGAGGGAGAAGCCGGGGACCCCGGAGACGATAACAACGACATTGCACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGTCCCGAGGGCCCCCAGGGACCCCGAGGACACCAAGGACCGCCTGGGCCGGACGA
ATGCGAGATTTTGACATCATCATGAAAATGTGCTCTTGCTGTGAATGCAAGTGGGGCCCCATCGACCTCCTGTT
CGTGCTGGACAGCTCAGAGAGCATTGGCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTCTGTCAGGTATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCGTACGCGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACCACTGCTGCCGCCAG
CCCGAACAACCGCATCGCCCTGGTCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCAGGGCCGGCCCGGCCTCTCGTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCCTGAAGAATGTACCCGCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCCTCCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTGGCTGCAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCCGCTGCCATCGAGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGA
GATCTTCGTGGTGGTCTGTGGGCCGCCAGGTGAATGAGCCCCACATCCGCGTCTGGTACCCGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTTAGCCACCCCTGCACGCCGGCACCAAACCTGTCTCTCCACCCC
TCCCCACTCATCACTAAACAGAGCCCAAGCTTGAAAGCCAGGACACAACGCTGCTGCCTGCTTTGTGCAGGGTC
CTCCGGGGCTCAGCCCTGAGTTGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCTCTGAGCTAGTGTACCTG
CACAGGGCCCTCTGAGGCTCAGCCCTGAGCTGGCGTCACCTGTGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTGG
CCTCACCTGGGTTCCCCACCCGGGCTCTCCTGCCCTGCCCTCCTGCCCGCCCTCCCTCCTGCCTGCGCAGCTCC
TTCCCTAGGCACCTCTGTGCTGCATCCACCAGCCTGAGCAAGACGCCTCTCGGGGCTGTGCCGCACTAGCCTC

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FIGURE 1650B

CCTCTCCTCTGTCCCATAGCTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAAACTCAAAGC
AAGCTCTTCTCCTCAGCTTGGGGCAGCCATTGGCCTCTGTCTCGTTTTTGGGAAACCAAGGTCAGGAGGCCGTTGC
AGACATAAATCTCGGCGACTCGGCCCCGTCTCCTGAGGGTCCTGCTGGTGACCGGCCTGGACCTTGGCCCTACAG
CCCTGGAGGCCGCTGCTGACCAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGA
CCCTCGAGATTAAACGGTGCTAACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAG
CCCCTTGGTGCCACAGAGGGCTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCCTCAGAATAGTGATGTGTT
CGACGTTTTATCAAAGGCCCCCTTTCTATGTTTCATGTTAGTTTTTGCTCCTTCTGTGTTTTTTTCTGAACCATATC
CATGTTGCTGACTTTTCCAATAAAGGTTTTCACCTCCTC

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FIGURE 1651

MRAARALLP LLLQACWTAAQDEPETPRAVAFQDCPVDLFFVLDTSSESVALRLKPYGALVDKVKSF TKRFIDNLRD
RYYRCDRNLVWNAGALHYSDEVEIIQGLTRMPGGRDAIKSSVDAVKYFGKGTYTDCAIKKGLEQLLVGGSHLKEN
KYLIVVTDGHPLLEGYKEPCGGLEDVNEAKHLGVKVFVSVAITPDHLEPRLSIIATDHTYRRNFTAADWGQSRDAE
EAI SQTIDTIVDMIKNNVEQVCCSFECQPARGPPGLRGDPGFEGERGKPLPGEKGEAGDPGRPGDLGPVGYQGM
KGEKGSRGEGKSGRGP KGYKGEKGKRGIDGVDGVKGEMGYPLPGCKGSPGFDGIQGP PGKGD PGAFGLKGEKGE
PGADGEAGRPGARGPSGDEGPAGEPGPPGEKGEAGDEGNPGPDGAPGERGGPGERGPRGTPGPRGPRGDPGEAGP
QGDQGREGPFVGP GDPGEAGPIGP KGYRGDEGPPGSEGARGAPGPAGPPGDPGLMGERGEDGPAGNGTEGFPGF
GYPGNRGAPGINGTKGYPLKGDEGEAGDPGDDNNDIAPRGVKGAKGYRGPEGPQGPPGHQGP PGDPDECEILDII
MKMCSCCECKCGPIDLLFVLDSSSEISGLQNF EIAKDFVVKVIDRLSRDELVKFEPGQSYAGVVQYSHSQMQEHVS
LRSPSIRNVQELKEAIKSLQWMAGGTFTGEALQYTRDQLLPPSPNNRIALVITDGRSDTQRDTTPLNVLCSPGIQ
VVSVGIKDVDFIPGSDQLNVISCQGLAPSQGRPGLSLVKENYAEELLEDAFLKNVTAQICIDKKCPDYTCPI TFS
SPADITILLDGSASVGSNFDTTKRFAKRLAERFLTAGRTPAHDVRVAVVQYSGTGQQRPERASLQFLQNYTAL
ASAVDAMDFINDATDVNDALGYVTRFYREASSGA AKRLLLFSDGNSQGATPAAIEKAVQEAQRAGIEIFVVVVG
RQVNEPHIRVLVTGKTA EYDVAYGESHLFRVPSYQALLRGVVFHQTVSRKVALG

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FIGURE 1652

TTTAAATGTCATCATCATAGTCTTTTAAATATTTTACATAAAAAAAGTGTATACACAGCTTATAGAACTTTTATGTA
AACATCATAAGCTCACCATTTTGTCAATTTGTCAGTTTATTTAAAAAATAAAAAACAAGACAACAATTTAGTAGAA
GTACCACTGGGAGGGTGGGGAGGGGAAAAAAGGATATACAGGGGCAGGTGTATTCTCTGTACAGAGGTGCAGAGA
AAATTTACATAGCTTTAGAGAATGCCTTGTGGAAAAAAAAAAAAATAGGCCCAATACTTGTTACTGCCCTTTA
TCAAACTGTGTGCATGACCTGCACAAATAAAATCACAAAACAGTGTGCCACATTCTTCAAGGAAACAAAGCAA
AATTTAGTGGGTTTCTTTTCCCTCTCCTTGTTAAAAGTCATTTTTTAAAAACATCAGAAGTAGATGAGGTTACAG
CGTACAAGTGTGGTCAGAATGCTACTGTCGTATGC

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FIGURE 1653

GGCGCGCGGCGAGCTGAGGGTGGCGGCGGTGACATGTTCCAGGTCCCGGATAGCGAGGGCGGCCGCGCCGGCTC
CAGGGCCATGAAGCCCCCAGGAGGAGAATCGAGCAATCTTTTTGGAAAGTCCAGAAGAAGCCACTCCTTCCAGCAG
GCCTAATAGGATGGCATCTAATATTTTTGGACCAACAGAAGAACCTCAGAACATACCCAAGAGGACAAATCCCCC
AGGGGGTAAAGGAAGTGGTATCTTTGACGAATCAACCCCCGTGCAGACTCGACAGCACCTGAACCCACCTGGAGG
GAAGACCAGCGACATTTTTGGGTCTCCGGTCACTGCCACTTCACGCTTGGCACACCCAAACAAACCCAAGGATCA
TGTTTTCTTATGTGAAGGAGAAGAACC AAAATCGGATCTTAAAGCTGCAAGGAGCATCCCGGCTGGAGCAGAGCC
AGGTGAGAAAGGCAGCGCCAGAAAAGCAGGCCCCGCCAAGGAGCAGGAGCCCATGCCACAGTCGACAGCCATGA
GCCCCGGCTGGGGCCGCGGCCCTCGCTCTCACAACAAGGTCTGAACCCACCGGGAGGCAAATCCAGCATCTCCTT
CTACTTAAGAGAAGCCACTGCTCCACCCGGAGCCAGACCAGAAACTCAAGAGATAGGGTAGCCATGTTTTTCATTTT
CTTTTGCCCAAATGAGCGGGGTGGGAAGAGGGTTAGTCTTATGTGAGCCTGGCTGCTCAGCGTCTCCTGGCCGTC
ATGACAGCTGCTTGGAGACCCGTGCCTTCCAGATGGCTGGGAGATGCCTCTGTGGGGATGAAATGGGGCACCCCT
GGCCATCACTCATGTGTAGTCCAGGTTTGAGAGGAAGTGAAGGGGGGTGAGGGTGGGGAGGTGGGGCAGGGCAT
GGTCCTTGGATCAACAGCCCGCCAGCTGATTGGATGTCTAGGAATGACTGAAAGAAACCAAACAGCCTGTCCAC
TGCTGCTGTGGGATGGAGGAGGCGTAAGCAGAAACACTAACAGTATATTGACCTCTTAGCAGAACCGCTTCCATT
CTGGAGATCACGGCTGCTAAATCCAGCATCCCCACTTCATTTTTACCCCCAGCATATTGTTCTGTAGTCTTTTTCTT
GAAACATCTTGATTGCTTTTCTCGGCAGCTTTCAAAAAACCAAATAATAATAGTTATCCGTCTTCTACTTCATG
GAAGATTGTTTTGGTGCCCTGACCCTCTGAAGTGCCAGTTCCTGCCATCTGAAACCTCGGCCTGATCTGATCTC
ATGTTGGAATCTGCCTGTCTTTACACAGGGCTGGTCTTGGTCCCTTACATGCCAGTTTTGCTTGTGAATTCTTG
CTTTTTTCTCTCATCAGCCTTAAGTTTAGGCGTTTGTTGTTCTCCAGTGATGTAGACAGTTCCCTTACAAAGTC
ACAGTTCTTCCCATAAATGAGGCCCGCTGACCTCTGCGGGACTTTAAAAATCTATTTCAGATATTTCCGAGTAAGT
GGCTTGTTTAAATTTCTTCTGTGTCTTTCTTTATTCTTAATTGGTTGGTGGAAAGAAGAGATGCTTGGGAACCT
TGGGTTCTTAGGTTTGGATTCTTTAATAATATCTAAAAAGCTAAATTTTAAATACCAGCTTTACATAAATGATTG
TTGACTCTGGTCTGTTTCTGACACCTTTCCAGAAAAAAGTCAATTGTTTCAGGTACACCAAAGAGGAAGAAGAGCT
GTGGAGGCCACCTCTACAAAGCTTTATAGAAGTCTGGATCTAACTCACAACAAGCTTCCAGAAGAGACTAGA
GACCTTAGGCCAGGAGATGAAGGAGTTCAGTAGCAAAGTCACACCTGTCCAATTCCCTGAGCTTTGCTCACTCAG
CTAATGGGATGGCAAAGGTGGTGGTGCTTTTCATCTTCAGGCAGAAGCCTCTGCCCATCCCCCTCAAGGGCTGCAG
GCCCAGTTCTCATGCTGCCCTTGGGTGGGCATCTGTTAACAGAGGAGAACGTCTGGGTGGCGGCAGCAGCTTTGC
TCTGAGTGCTTACAAAGCTAATGCTTGGTGCTAGAAACATCATCATTATTAACTTCAGAAAAGCAGCAGCCATG
TTCAGTCAGGCTCATGCTGCCCTCACTGCTTAAGTGCTGCAGGAGCCGCTGCCAAGCTCCCCCTTCTTACACCTG
GCACACTGGGGTCTGCACAAGGCTTTGTCAACCAAAGACAGCTTCCCCCTTTTGATTGCCTGTAGACTTTGGAGC
CAAGAAACACTCTGTGTGACTCTACACACACTTCAGGTGGTTTGTGCTTCAAAGTCATTGATGCAACTTGAAAGG
AAACAGTTTAAATGGTGGAATGAAGTACCATTTATAACTTCTGTTTTTTTATTGAGAAAATGATTACGAATTCC
AAATCAGATTGCCAGGAAGAAATAGGACGTGACGGTACTGGGCCCTGTGATTCTCCAGCCCTTGCAGTCCGCTA
GGTGAGAGGAAAAGCTCTTTACTTCCGCCCCCTGGCAGGGACTTCTGGGTTATGGGAGAAACCAGAGATGGGAATG
AGGAAAATATGAACTACAGCAGAAGCCCCCTGGGCAGCTGTGATGGAGCCCCCTGACATTACTCTTCTTGCATCTGT
CCTGCCTTCTTTCCCTCTGCGAGGCAGTGGGGTGGGATTGAGAGTGCTTAGTCTGCTCACTGGGAGAAGAAGAGT
TCCTGCGCATGCAAGCCCTGCTGTGTGGCTGTGTTTTACATTTGGGAGGTGTCCTGTATGTCTGTACGTTGGGGA
CTGCCTGTATTTGGAAGATTTAAAAACCTAGCATCCTGTTCTCACCCCTTAAGCTGCATTGAGAAATGACTCGTC
TCTGTATTTGTATTAAGCCTTAACACTTTTCTTAAGTGCAATTCGGTGCCAACATTTTTTTAGAGCTGTACCAAAAC
AAAAAGCCTGTACTCACATCACAATGTCATTTTTGATAGGAGCGTTTTGTTATTTTTTACAAGGCAGAATGGGGTGT
AACAGTTGAATTAACTAGCAATCACGTGCTCAGAGCTTT

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FIGURE 1654

MFQVPDSEGGRAGSRAMKPPGGESSNLFGSPEEATPSSRPNRMASNIFGPTEEPQNIPKRTNPPGGKSGIFDES
TPVQTRQHNLNPPGGKTSDFGSPVTATSRLAHENKPKDHVFLCEGEEPKSDLKAARSIPAGAEFGEKGSARKAGP
AKEQEPMPTVDSHEPRLGPRPRSHNKVLNPPGGKSSISFY

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FIGURE 1655

GTTTTACGCTGCCGCCGGCATCCGCTCGGACGCGGCCACGTTGTCTTGCGCGCTTTGCCCGCCTGGCCCTGGGAC
TCTGACCCCTCGGCTACCCCTTTCTGCCCCACTAGCGTGGCCGCGAGCCTCGGTGAGCCGGCCGTATTCCCGCTCT
CGCTTAGGGGGACAGGCGCAGGCATCGGCCCCGGCCACTCCAAGCCTTCGGTGCGCGGGCGCGTCTGGGATACGG
GCCCCGGAGGCGCCGCCCTCCGTCCGCCCCGGTGCTCTCAGGAACAGCGAACCGGAGAGAGCGCCGGAGAGTTGG
GCTCAGTGCGGAGCTCGGCGCCGGGGCCCCATGCCCCGTGCGCCCCCGCAGGCCGGCGCCATGCCCTCCGGGAGTGT
GGCCGAGTGCTGCAGCAGGAGACCACCTGCCCCGTGTGCCTGCAGTACTTCGCAGAGCCCATGATGCTCGACTG
CGGCCATAACATCTGTTGCGCGTGCCTCGCCCGCTGCTGGGGCACGGCAGAGACTAACGTGTCGTGCCCGCAGTG
CCGGGAGACCTTCCCGCAGAGGCACATGCGGCCCAACCGGCACCTGGCCAACGTGACCCAACTGGTAAAGCAGCT
GCGCACCGAGCGGCCGTGCGGGCCCCGGCGCGAGATGGGCGTGTGCGAGAAGCACCGCGAGCCCCCTGAAGCTGTA
CTGCGAGGAGGACCAGATGCCCATCTGCGTGGTGTGCGACCGCTCCCGCGAGCACCGCGGCCACAGCGTGCTGCC
GCTCGAGGAGGCGGTGGAGGGCTTCAAGGAGCAAATCCAGAACCAGCTCGACCATTTAAAAAGAGTGAAAAGATTT
AAAGAAGAGACGTCGGGCCCCAGGGGGAACAGGCACGAGCTGAACCTTTGAGCCTAACCCAGATGGAGAGGGAGAA
GATTGTTTGGGAGTTTGAGCAGCTGTATCACTCCTTAAAGGAGCATGAGTATCGCCTCCTGGCCCGCCTTGAGGA
GCTAGACTTGGCCATCTACAATAGCATCAATGGTGCCATCACCCAGTTCTCTTGCAACATCTCCACCTCAGCAG
CCTGATCGCTCAGCTAGAAGAGAAGCAGCAGCAGCCCCACCAGGGAGCTCCTGCAGGACATTGGGGACACATTGAG
CAGGGCTGAAAGAATCAGGATTCTGAACCTTGGATCACACCTCCAGATTTGCAAGAGAAAAATCCACATTTTTTGC
CCAAAAATGTCTATTCTTGACGGAGAGTCTAAAGCAGTTCACAGAAAAATGCAGTCAGATATGGAGAAAAATCCA
AGAAATTAAGAGAGGCTCAGTTATACTCAGTGACGTGACTCTGGACCCAGACACGGCCTACCCACGCTGATCCT
CTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACAACCCCGAGAGGTTCAATCT
GTTTCCCTGTGTCTTGGGCTCTCCATGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGC
CAAGTGGACCATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAATGGATT
CTGGGCAGTGTCTTTGTGGTATGGGAAAGAATATTGGGCTCTTACCTCCCCAATGACTGCCCTACCCCTGCGGAC
CCCGCTCCAGCGGGTGGGGATTTTCTTGGACTATGATGCTGGTGAGGTCTCCTTCTACAACGTGACAGAGAGGTG
TCACACCTTCACTTTCTCTCATGCTACCTTTTGTGGGCTGTCCGGCCCTACTTCAGTCTGAGTTACTCGGGAGG
GAAAAGTGCAGCTCCTCTGATCATCTGCCCCATGAGTGGGATAGATGGGTTTTCTGGCCATGTTGGGAATCATGG
TCATTCCATGGAGACCTCCCTTTGAGGAGGTGAATTCAGGCCAAAAGGGCTGTTGGCTGTAATCCTACGCCAGGC
ACAAGGCATCTTGTGCTTGCCACGTCTGTACAGCTGGGTATCCTTACCATGTTCCACGCCCTTGCAGTGGG
AGACAGGATGTCCATGTTCTCTACCATCCTTTTCTTCCCATGCAGATTGTGAAATGTAATGAGATGTATCAAGA
CATCCTAGAAATAAAAACCAGATGTCCACCTCCAGTGTTTCATACTTTCTGGTTTTACACATCGCTGGAGGGATA
AAGAGTATGGATAATCTTTGGATTTGGAGAGCCGTTCAAGATACTTCCAGCTTCTTGGCTCAGCCTGGCTTCCTC
TGGTTCAGCCCCACATAATGATTATGGCTATTTGCTGTCATTTCTGGGCTAGGGCTCCTTTCTAACAACCTAGAC
TGGAATAAGGCCCTGTGAGCATGGCTCCCTTTATCCCAGTTTTCCGTCTGGGAACAGTACCTCTGCCCCGTGATTC
CCAATGTGCCATAGTTTTATTAACCTCATTAAAGAAGCCTGTATGTGTTTTGGTTAGTTACAGTTATTTTACAAT
AATGGTGGGTAATGGCCCCACCTCTGTTATGAGATAATGTTCTAATCAATGTCTCTGCCTTTGTATCTTTTCTGA
GGGCTTTGTCTGTTCTCTTCAATTAATGAAAGGTGATTCTAGTGCTGGGTGCATATCATCCAGGATAATATTC
TGCCCAACTCCATCCTCTGTTACTAGATCCCTTACCAGTCACATTTGTGGACTGGTGGCCAGTCGTATAACCATCC
CTGGAAGGATTCTGGGACAATATTCCAGGGATTCAATTGACTTCTTGGCTCCTTTTCTCCATTTCTTTGGGGGAA
GGGGGAATTGACCATGCTTAAGTGCATCCTATCAAGGGGCGAGTCCGTCCCCATGGCCATTGGATCATGAGACAC
TCGAAGTCAGAAGGCTGGGGCAGATCACTTCAAGCAAGCCCCCATGATGGTTCTCAGTCCTGCTTCTCTGTGGGT
ACGTGCCCCCTCTGTTTAAAAATAAACTGAATATGGATGTTTAAAAAAAAAAAAAAAAAAAA

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FIGURE 1656

MASGSVAECLQQETTCPVCLQYFAEPMMLDCGHNICCACLARCWGTAETNVSCPQCRETFFQRHMRPNRHLANVT
QLVKQLRTERPSGPGGEMGVCEKHREPLKLYCEEDQMPICVVCDRSREHRGHSVLPLEEAVEGFKEQIQNQLDHL
KRVKDLKKRRRAQGEQARAELLSLTQMEREKIVWEFEQLYHSLKEHEYRLRLARLEELDLAIYNSINGAITQFSCN
ISHLSSLIAQLEEKQQQPTRELLQDIGDTLSRAERIRIPEPWITPPDLQEKIHIFAQKCLFLTESLKQFTEKMQS
DMEKIQELREAQLYSVDVTLDPDYTAYPSLILSDNLRQVRYSYLQQDLDPNPERFNLFPVGLGSPCFIAGRHYWEV
EVGDKAKWTIGVCEDSVCRKGGVTSAPQNGFWAVSLWYGKEYWALTSPMTALPLRTPLQRVGIFLDYDAGEVSFY
NVTERCHTFTFSHATFCGPVRPYFSLSYSGGKSAAPLIICPMSGIDGFSGHVGNHGHSMETSP

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FIGURE 1657

CGAGGATTCAGCAGCCTCCCCCTTGAGCCCCCTCGCTTCCCGACGTTCCGTTCCCCCTGCCCCGCTTCTCCCGC
CACCGCCGCCGCCGCTTCCGCAGGCCGTTTCCACCGAGGAAAAGGAATCGTATCGTATGTCCGCTATCCAGAAC
CTCCACTCTTTCGACCCCTTTTGCTGATGCAAGTAAGGGTGATGACCTGCTTCCTGCTGGCACTGAGGATTATGTC
CATATAAGAATTCAACAGAGAAACGGCAGGAAGACCCCTTACTACTGTCCAAGGGATCGCTGATGATTACGATAAA
AAGAACTAGTGAAGCCGTTTAAAGAAAAGTTTGCCTGCAATGGTACTGTAATTGAGCATCCGGAATATGGAGAA
GTAATTCAGCTACAGGGTGACCAACGCAAGAACATATGCCAGTTCCTCGTAGAGATTGGACTGGCTAAGGACGAT
CAGCTGAAGGTTTCATGGGTTTTTAAGTGCTTGTGGCTCACTGAAGCTTAAGTGAGGATTTCTTGCAATGAGTAGA
ATTTCCCTTCTCTCCCTTGTACAGGTTTAAAAACCTCACAGCTTGTATAATGTAACCATTTGGGGTCCGCTTTT
AACTTGGACTAGTGTAACCTCCTTCATGCAATAAACTGAAAAGAGCCATGCTGTCTAGTCTTGAAGTCCCTCATTT
AAACAGAGGTCAAGCAATAGGCGCCTGGCAGTGTCAGCCTGAAACCAAGCAATACCGTCATGTTTCAGCCAAGC
CCAGAGCCCTAAGATTACAAACAACCTATGGCCGGAACCTCCTCAGCTCTCCCTCTGCAGAGTTCCCTACCCTAAG
AGAATGTTACCACCTGAACAGTCCTCGGTGAATCTGAGAGGAGAGGATGGGGTAAGGCAGAAGCACCAGCTGTAC
TACTAGAAGGGAGCTTTTGGTGGTAGATCCCCTGGTGTCTCCAACCTGACTAGGTGGACAGAGCTCAAAGAGGCC
CTCTTACCGCTAGCGAGGTGATAGGACATCTGGCTTGACAAAAGGTCTGTTTCGACCAGACATATCCTAGCTAAGG
GATGTCCAAACATCAGAATGTGAGGCCAACCTTCTATCAGAGTTAACTTTTGACAAGGGAACAAATCTCAAACCT
GATCCATCAGTCATGTAGCTAGCTGTAGAGCTTGCAACTTAATAGCAGCAGCTGCCCAATGCCATGTGAAGTAAC
AAACTGGTTTTTGGTTTTTTTTTCCCCTTCAGTTTTAATGTTATGTGTAATGTATTTAAACCCTTATTTAAATAA
AACTTGTTTTTCAGAAATAAAAAAAAAAAAAAAAAAAAAA

1859/2825
FIGURE 1658

MSAIQNLHSFDPFADASKGDDLLPAGTEDYVHIRIQQRNGRKTLLTVQGIADDYDKKKLVKPFKKKFACNGTVIE
HPEYGEVIQLQGDQRKNICQFLVEIGLAKDDQLKVHGF

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FIGURE 1659

GAGCAGTGCGGTGGCTGCCGGAGAGCCAACACCACGGATCGGCCCCACGCCTTCCAGGTCATTCTCTCCGACCGG
CCCTGCCTGGAGCTAAGTGCCGAGAGCGAGGCCGAGATGGCCGAGTGGATGCAGCATCTCTGCCAGGCTGTGTCC
AAAGGGGTGATCCCCCAGGGCGTAGCTCCAGCCCCCTGCA¹TACCTTGCTGCCTGGTCC²TACGGATGACCGCCTC
TTTACGTGCCATGAGGATTGCCAGACCAGCTTCTTCCGCTCTTTGGGCACAGCCAAGCTGGGCGACATCAGCGCC
GTCTCCACCGAGCCGGGCAAGGAGTACTGCGTCTTGGAGTTCTCCAGGACAGCCAGCAGCTCCTCCCGCCCTGG
GTCATCTACCTGAGCTGCACTTCTGAACTGGACCGATTGCTGTCTGCACTGAACTCTGGGTGGAAAACCATCTAT
CAGGTGGACCTCCCCCACACGGCGATCCAGGAAGCCTCCAACAAGAAGAAATTGAGGATGCCTTGAGCCTCATC
CACAGCGCCTGGCAGCGGAGCGACAGTCTCTGCCGCGGCCGAGCCTCCCGAGACCCCTGGTGCTGAGGCAGAGCT
GGTTGGCGTCCCTGGTGGGCAGGAAAGGAAGGCACGCCAGCCGGCAGGCACACTGTACGGCTGTTGTGTCATGCTG
TCGGGAGCCTACAGTCCACCCCTGCCCTGGGCGGCAGAACCCACCGAGTGTGGCTTAAGACAGGGTCCCTCCACTC
CAGGGATCCAGATCAGGTGCCCGGCACCCCTGGGCATCCTGCCCGACAGGTAGCGAATGGAGGTGCTGGGGGCA
GAGGGTCCGAGCCCCGTGGGCTCTGCGGATGCACGCCCTCCTCCCGGGCCTCCGCCTCAGTCTGCAGAATTTCTG
CCGAGTGGCACCGAGAACACCATCCATCTAAGGACGAACAAAAGAACCAGGAGGGCGGGACCCCCCTCTTCTCT
CCTGGGTTGGGGGCTGGGGCCCTGAGTGCCAGCCATCCTTGTTCTGTTTGAACACTCTCTGGCCACGTGGGG
AAGCGGGAACACGGGGTGTCTGCGCATGTTTCTCTCCTAGCTCCATCACTGCGCACACAGCTGCCTGCCTCGC
CAGATGCAGGGGGGCGGGCAGCCCTCCCTGGCTGCCAGGAGGCTCTGCATGCCACAGTCCTGCCCTGCCTCTCC
CCTCAACCCGGCAGTGCCTGTAGCACCGAGGAGCAAAGGGGGTGGATGGGGGGCTTGGAGAAGGGCGGAGCCAC
CAGCCTGGCATCCATGTTGACATCTTCTGACTGTCCCCTGCTTGGCTGGAGCCAGGCCCTTCCCTAGAGTTTCGT
CAAGAGCCTCCTGGGGAAGGGTTCAGGTGGTTTGGGTTTTGTTTTTTAAATAAAATAGACATGTTATATTGCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1660A

GGCTGGCGGCGGTAGCTGTGCGCCGCTTGGTTGCGTGACCGCGGGGTCCGCGTCCGCTCCCTCCACCCTTCGCCC
TTCGCCCTTCGCCTCGTCCCGGCCTCCGCGGCCCAGCAACGGCCGTCATGGTGCCGTCGGCGCTCCCTGCGCGGC
CCCGCTGAGCCTCGGTGCGGCGGCGAGCGCGGTGAGATCGCCATGCCTACCCGAGTATGCTGCTGCTGTTCCGC
TTTGCGTCTCGCTACAAACGCCTGGTGGACAACATATTCCCTGAAGATCCAAAAGATGGCCTTGTGAAAACCTGA
TATGGAGAAATTGACATTTTATGCAGTATCTGCTCCAGAGAACTGGATCGAATTGGTTCTTACCTGGCAGAAAG
GTTGAGCAGGGATGTTGTCAGACATCGTTCTGGGTATGTTTTGATTGCTATGGAGGCACTGGACCAACTTCTCAT
GGCTTGCCATTCTCAAAGCATTAAAGCCATTTGTAGAAAGCTTTCTTCATATGGTGGCAAAGCTGCTGGAATCGGG
GGAACCAAAGCTTCAAGTTCTTGAACAAATTCTTTTGTCAAATTTGCAAATATTGAAGAAGACACACCATCCTA
TCACAGACGTTATGACTTTTTTGTGTCTCGATTGAGTCCATGTGCCATTCTGTGCATAGTGATCCAGAAATACG
AACAGAGATACGAATTGCTGGAATTAGAGGTATTCAAGGTGTGGTTCGCAAACAGTCAACGATGAACTTCGGGC
CACCATTGGAACCTCAGCATATGGATAAGATTGTTCCATCCCTCCTGTTTAAACATGCAAAGATAGAAGAAGT
TGACAGTCGCATAGGCCCTCCTTCTTCTCCTTCTGCAACTGACAAAGAAGAGAATCCTGCTGTGCTGGCTGAAAA
CTGTTTCAGAGAACTGCTGGGTGAGCAACTTTTGGGAATATGAATAATGCTGTTAGACCAGTTTTTGCGCATTT
AGATCATCACAACTGTGGGATCCCAATGAATTTGCAGTTCACTGCTTTAAAATTATAATGTATTCCATTCAGGC
TCAGTATTCTCACCATGTGATCCAGGAGATTCTAGGACACCTTGATGCTCGTAAAAAAGATGCTCCCCGGGTTCG
AGCAGGTATTATTAGGTTCTGTTAGAGGCTGTTGCCATTGCTGCTAAAGGTTCCATAGGTCCGACAGTGCTGGA
AGTCTTCAATACCCTTTTGAACATCTGCGTCTCAGCGTTGAATTCGAAGCAAATGATTTACAGGGGGGATCTGT
AGGCAGTGTCAACTTAAATACAAGTTCCAAAGACAATGATGAGAAGATTGTGCAGAATGCTATCATCCAAACAAT
AGGATTTTTTGGAAAGTAACCTACCAGATTATCAGAGGTCAGAAATCATGATGTTCAATTATGGGGAAAGTACCTGT
CTTTGGAACATCTACCCATACTTTGGATATCAGTCAACTAGGGGATTGGAACCAGGAGAATTCAGATAATGTT
GCTGAGATCTTTGCTTATGGTGACCTCTGGATATAAAGCGAAGACGATTGTTACTGCACTGCCAGGGTCTTTTCCT
GGATCCTTTGTTATCACCATCTCTCATGGAGGACTACGAACTGAGACAGTTGGTCTTGGAAGTAATGCATAATCT
CATGGATCGTCATGACAATAGGGCAAAGCTTCGAGGGATCAGAATAATACCGGATGTAGCTGACCTAAAGATAAA
AAGAGAAAAAATTTGCAGACAAGACACAAGTTTCATGAAAAAGAATGGGCAACAGCTGTATCGGCACATATATTT
GGGTTGTAAAGAGGAAGACAACGTTTCAGAAAACTATGAACTACTTTATACTTCTCTTGCTCTTATAACTATTGA
ACTGGCTAATGAAGAAGTAGTTATTGATCTCATTGACTGGCCATTGCTTTACAGGACAGTGCAATTATCAATGA
GGATAATTTGCCAATGTTCCATCGTTGTGGAATCATGGCACTGGTTGAGCATACTCAACTTTGTAAGTCAGAT
GATAGCTGTCCCTGCATTTTGCCAGCATGTTAGCAAGGTTATTGAAATTCGAACTATGGAAGCCCCCTATTTTCT
ACCAGAGCATATCTTCAGAGATAAGTGCATGCTTCCAAAATCTTTAGAGAAGCATGAAAAAGATTTGTACTTTCT
GACCAACAAGATTGCAGAGTCGCTAGGTGGAAGTGATATAGTGTTGAGAGATTGTCAGTTCCGTATGTACCACA
AGTAACAGATGAAGATCGACTTTCTAGAAGAAAAAGCATTGTGGACACCGTATCCATTGAGGTGGATATTTTATC
CAACAATGTTCTTCTGATGATGTGGTTAGTAACACTGAAGAAATCACTTTTGAAGCATTGAAGAAAGCAATTGA
TACCAGTGGAATGGAAGAACAGGAAAAGGAAAAGAGGCGTCTTGATAGAGAAATTCAGAAAGCACCTTTTGA
AGAAATAGCAGCACAGTGTGAATCCAAAGCAAATTTGCTTCATGATAGACTTGCCCAAATATTGGAAGTCACCAT
ACGTCTCTCTCCAGTCCATCAGGAACACTGACCATTACTTCTGGGCATGCCCAATACCAATCTGTCCAGTCTA
TGAGATGAAGTTCCAGATCTGTGTGTGTACTGATCGGCGCATGAAGACCTCAGCATATGATTTGTAAAGCCTAA
AAATTAAGGCCAAGCTGAGCTTTCAGGGTTTACTTAATGTGTATTAACATACTTCTTGAAATAATGATGGAACA
TATCTTTAACCAAATGTTTGGCATACCATATTAGAAGTTTGGAGCTATATATAATTCGAGTACTTTCAAAGAT
AGATTTATGCCATGTTAATTTGCTTTGAGGTTTCTGTTGCCTTTTTAAGTTGAACATGTTTTGGTTTTCACTTTAT
TCCACTGTTAAGTAGTATGTTTTAACTTTTACAAATGTAATGTTTTTTAAAAGTAAGCCTTCAGAGGATTGA
AACTGTATAAAATTGTTTATCTCTTAAACATCTACACAGCCGCTTAGATGTAGAATTTTTGTTGTTGTTTTCTGCA
AAGGCAGATACATTTAAATATATTCTAGTCCTGGGGCTGCAAAACTGTTCCGGTGGCTTTTTTGTCCTCCATGCTTT
AGATAAGCTGGGATAGGCACCTTGCTATTTCAGTTACTATAATAATATGTGATAGGCATTCCTCATCTTCTTCACA
ATAATAGGACATCTGTTGAATAGCATTCCTCGAATATAACCCTAAAAACGCCATACTTTAAATTGTCTGGTTCTT
GTAATATTGTGTTTCTGCCAAGAGTTTGACCATTCTGCTTGAGAAGTGTAGAGCTTACTCTTGAGTAGTACCAAC
TGTGCAATATTTTACATCATAAGATGTATTAGTTTACAGGCTGTGCTTTGAAATTATAGTAGTATTTTGCTGTG
GCTCCATTAATTAATGAGATATATATTTAGTGCAGAAAAAAGACATTTAAACAGCTATTAGTTACCTGTGAA
GAGTCTGTACATTTTGATTTCTATTAAGAGCACATTTATTTACATTTGTATATTATTTTAAATCCTCATAGTCAA

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FIGURE 1660B

AAAATTCTCCAGATGGACTTTTAATTGTAAGATTTGAACTGTGACTTGTATACATCTGTTTAGAATCAATTATA
TTTGAAAAGCTGCCTGTGTTTTAACAGTCAAGTGTGCTAAAGTTTGTCAATTTAAGCTGCTTTTGATTTTCAGCTA
CCAAGATTACAGGTGCACCTCTACACATAACACTGACAGACCCATAACATTACATACATCTTAGTGAATTCTATCA
CATGGTAAATGAACAGCTTTCTTTGTAACCTATAAAATTCTCTTAGGACATTTTTATAAAGTCACCTGTTTATA
GTTCTATCTTTTCAGATTCCATTTCTTTTACATAAAACAGCATACATATCAAAAACCTGTAGCCTAGAATACAGT
TTAATTTTTGGCTTTTGTGTTTTGTTTAAAAAATTGCAGTGAAGAATGGGATGTTTGTGTTTATGGCTATTTGGGC
ACCTTTAGTAGAAACAGACAAAAGTAAGGAAACGATAATAGGACAAGCATACTTGAAAATTTCTGAATACTTAAA
CAAAAGCGCAACATCTTGAAAACCAGTCTAGTCATTGAAACCTATGAAATGACACTGAAAGATCCTGGGCTGCTT
CTTAAATAAGTAGATCAGCAAGACTTGTTTCAGAGTGACAGTGGAGTCGTTACCGCTGGAGGACTAAAGGGCCCT
GTGGCAGCTGTCACTGGAACCTTGCCTCTTGATCAGGAAAAATGCTTCACCAGTCCGTAAAGCCAAGTTGTATTT
TTTTTATTGCCCTTTTTTCTTCTGTATTTTTAAAGAAGGATGTTAATTTTTGACTATATATTTAAAAAAATCT
AAGCAGGGGGACATGCAAAAACAATCATCATCCACTTGATGTCAATTTATAGATTAACACTGTGTGCTTTTGTA
TGAAAAAATATATATAATTTAATAGTATAAAAAATAAAATATATATTCATTTGCACCTACGTGAAACACAACT
TTGCTCTACAAAATTCGTGTTTCTTAGTGATTTTAAATGCATGTATTGCATGTAAAGGAAAACCATTACAATT
AATGTTTATCACACCTTTATCTTGGTCTTTGTTGATTTGGGTTTTGTTGGGGTTTTTGTACTGTTTTTAAATTA
CAGTAGGCTTCTATATATCCTGGATTTCTGAACTGGTCTTGTTGACAAGGATTCCCAAGAAATGGATCTTTTCAC
TGGCTGACTCTCCCATATCTGCAAGAGATTCTGCAGGAACTGGGTGTGCACACGGTGTGTAGCCAGTTCAGGTA
CTGAATATTTAGGATTTGGTGAAGTTCAGTGTATTGCTATATTTTTGTAGATAAAATAAACTCAATAAATTGTTA
ATCATTCTCTTTTTGCTGTATAGAATTGCTTATATCACTCTTTCTTTTCATGACATTGGTTAACATTTAAATGTTT
CTCCTGTACTTGTGTTGTCTGTGACCGCTTATAGAGTTTTATTGTTATTGGTGTGTACCTGAATACCTATGCGTA
CACACACACATATTTCCTTAATACTTCTGAACTCATTATCTTTTGAATAATAATACTACTACACTTTACCAGCA
ATTAACCTCTCCCTACCCAAAATGTTTTCTTCTGCTGTGAAAATGGAACATAATTTGTCTTATTTCGTGCTTATAT
CTGTATTAAATGCAATAAAGTTAGTTTTTGAAATGT

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FIGURE 1661

AGGGSCRPLGCVTAGSASAPSTLRPSPFASSRPPRP SNGRHGAVGAPCAAPLSLGAAASAVEIAMPTRVCCCCSA
LRPRYKRLVDNIFPEDPKDGLVKTDMEKLTFYAVSAPEKLDRIGSYLAERLSRDVVRHRSYVLIAMEALDQLLM
ACHSQSIKPFVESFLHMAKLLLESSEPKLQVLGTNSFVKFANIEEDTPSYHRRYDFFVSRFSAMCHSCHSDPEIR
TEIRIAGIRGIQGVVRKTVNDELRAIWEPOHMDKIVPSLLFNMQKIEEVDSRIGPPSSPSATDKEENPAVLAEN
CFRELLGRATFGNMNNAVRPVFAHLDHKKLWDPNEFAVHCFKIIMYSIQAQYSHHVIQEILGHL DARKKDAPRVR
AGIIQVLL EAVAIAAKGSIGPTVLEVFNTLLKHLRLSVEFEANDLQGGSVGSVNLNTSSKDNDEKIVQNAI IQTI
GFFGSNLPDYQRSEIMMFIMGKVPVFGTSTHTLDISQLGDLGTRRIQIMLLRSLLMVTSGYKAKTIVTALPGSFL
DPLLSPSLMEDYELRQLVLEVMHNLMDRHDNRALRGIRIIPDVADLKIKREKICRQDTSFMKKNGQQLYRHIYL
GCKEEDNVQKNYELLYTSLALITIELANEEVVIDLIRLAIALQDSAIINEDNLPMFHRCGIMALVAAYLNFVSQM
IAPPAFCQHVSQVIEIRTMEAPYFLPEHIFRDKCMLPKSLEKHEKDLYFLT NKIAESLGSGYSVERLSVPYVPO
VTDEDRLSRRKSIVDTVSIQVDILSNNVPSDDVVSNTTEEITFEALKKAIDTSGMEEQEKEKRRLVIEKFQKAPFE
EIAAQCESKANLLHDLRAQILELTIRPPPSPSGTLTITSGHAQYQSVPVYEMKFPDLCVY

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FIGURE 1662

GGCAGGAGGGAGGGAGCCAGAGGAAAAGAAGAGGAGGAGAAGGAGGAGGACCCGGGGAGGGAGGCGCGGCGCGGG
AGGAGGAGGGGCGCAGCCGCGGAGCCAGTGGCCCCGCTTGGACGCGCTGCTCTCCAGATACCCCCGGAGCTCCAG
CCGCGCGGGATCGCGCGCTCCCGCCGCTCTGCCCCCTAACTTCTGCCGTAGCTCCCTTTCAAGCCAGCGAATTTAT
TCCTTAAAACCAGAACTGAACCTCGGCACGGGAAAGGAGTCCGCGGAGGAGCAAAACCACAGCAGAGCAAGAAG
AGCTTCAGAGAGCAGCCTTCCCGGAGCACCAACTCCGTGTCGGGAGTGCAGAAACCAACAAGTGAGAGGGGCGCCG
CGTTCCCGGGGCGCAGCTGCGGGCGGCGGGAGCAGGCGCAGGAGGAGGAAGCGAGCGCCCCGAGCCCCGAGCCC
GAGTCCCCGAGCCTGAGCCGCAATCGCTGCGGTACTCTGCTCCGGATTCTGTGTGCGCGGGCTCGCCGAGCGCTGG
GCAGGAGGCTTCGTTTTGCCCTGGTTGCAAGCAGCGGCTGGGAGCAGCCGGTCCCTGGGGAATATGCGGCGCGCG
TGGATCCTGCTCACCTTGGGCTTGGTGGCCTGCGTGTGCGCGGAGTCGAGAGCAGAGCTGACATCTGATAAAGAC
ATGTACCTTGACAACAGCTCCATTGAAGAAGCTTCAGGAGTGTATCCTATTGATGACGATGACTACGCTTCTGCG
TCTGGCTCGGGAGCTGATGAGGATGTAGAGAGTCCAGAGCTGACAACAACCTCGACCACTTCCAAAGATACTGTTG
ACTAGTGCTGCTCCAAAAGTGAAACCACGACGCTGAATATACAGAAACAAGATACCTGCTCAGACAAAGTCACCT
GAAGAACTGATAAAGAGAAAGTTCACCTCTCTGACTCAGAAAGGAAAATGGACCCAGCCGAAGAGGATACAAAT
GTGTATACTGAGAAACACTCAGACAGTCTGTTTTAAACGGACAGAAAGTCCTAGCAGCTGTCATTGCTGGTGGAGTT
ATTGGCTTTCTCTTTGCAATTTTTCTTATCCTGCTGTTGGTGTATCGCATGAGAAAGAAGGATGAAGGAAGCTAT
GACCTTGGAGAACGCAAACCATCCAGTGTGCTTATCAGAAGGCACCTACTAAGGAGTTTTATGCGTAAACTCC
AACTTAGTGTCTCTATTTATGAGATCACTGAACTTTTCAAAAATAAAGCTTTTGCATAGAATAATGAAGATCTTTG
TTTTTTGTTTTTCATTAAAGGACCATTCTGGCACTTTAATGATAAAAATCCCATTGTATTTAAACATTTTCATGTAT
TTCTTTAGAACAAACATAAAATTTAAATTTAACATCTGCAGTGTCTGTGAATAGCAGTGGCAAAATATTATGTTA
TGAAAACCCCTCGATGTTTCATGGAATTGGTTTTAACTTTTTATGCGCAAATACAAAATGATTGTCTTTTTTCTATGA
CTCAAAGATGAAAGCTGTTTTATTGTGTGTCAGCATGTCTCAGATTGACCTTACCAAGTTGGTCTTACTTTGTAA
TTTTATCTGTTGTCCCTTCCCTCTCTGCCCCTCCCTTCTTGTGCCCTTAAAACCAAACCCCTATGCCTTTTGTAG
CTGTCAATGGTGCAATTTGTCTTTGGAAAATTCAGATAATGGTAATTTAGTGTATATGTGATTTTCAAATATGTAA
ACTTTAACTTCCACTTTGTATAAATTTTTAAGTGTGACACTATCCATTTTACACTTGCTTTATTTTTTCACTACCT
GTAGCTTTGGGCAGATTTGCAACAGCAAATTAATGTGTAATAATGGATTATTACTACAAAACCGTTTAGTCATAT
CTATCTAATCAGATCTTCTTTTGGGAGGATTTGATGTAAGTTACTGACAAGCCTCAGCAAACCCAAAGATGTTAA
CAGTATTTTAAAGAGTTGCTGTCAGATTCTTTGGCCACTGTATTTGTTAATTTCTTGCAATTTGAAGGTACGAGT
AGAGGTTTAAAGAAAAATCAGTTTTTGTCTTAAAAATGCATTTAAGTTGTAAACGTCTTTTTTAAGCCTTTGAAG
TGCCTCTGATTCTATGTAACCTGTTGCAGACTGGTGTAAATGAGTATATGTAACAGTTTAAAAAAAAGTTGGTA
TTTTATAAGCACAGACAATTCTAATGGTAACTTTTGTAGTCTTATGAATAGACATAAATTGTAATTTGGGAACAT
AAAAACTACTGAATAAATCATGTGGCCTAATATTGAAAATGTCAGTGTATAAATTTTGTACATTTTGTATCAAA
TGTACATCTCCCTTTGCTAACGGCCGCTGCTCTCAGGTTGACGTGGGTTTGATTTCTAAGTGTTCACAGTGT
CTGTAAATCAAGACCAAAGAGCCTGTCGATGAGACTGTTTATTACCAGATTCACCTCTGAATTGGCCAGAGGAAA
TCTGAATGTATTATCCTGTGTGTGTCTAGGTAGAGATATTGGAAGGCTGCCAGGGGATTCGAAGTTTGCAACCT
TTATAGGATAACTGATGGCAATATTAAGACAGACGCTGCTTTTGCAAATAACTTACAAGACTGTAAATTCACAA
GATCTGAATGGGGCTTTCCTGATGTTGGTATCTAAGGCTTAGGCCATATAGATTGATTTACCTTTGGAATTGTGCT
CCAAATGTCTACTGAAGCTTAACCGAAGAACTAATAAATGGACTACAGTAGCTCACGTTACAGGGAACCAACCTA
GGCAGGGAGGCTCTGTGTGTTAAATGAGGGTCTCACTGCTTTAGGATTGAAGTGGCTGGAAAGAGTGATGCCTG
GGGAAGGAGATGGAGTTATGAGGGTACTGTGGCTGGTACTTTCTGTACTAAACATTTTCTTTTTCTATTTTACCA
CTAATTTTCTTTTAACTGTGAGCCGTCCAAGTCAGAAAGAGACAGCAAAAAAGCAACTTTTCCAACATACAAT
TTACTTTTAAATAAGTATGAATATTTTCAATTTTGAAGACATTCCCTGGAATTGCCACATAATTCATTAATAAACATT
TTTTTAAGCAACACTTGGAACAGTGTCTTAACTTAAATCCCTAATGGCCTTAATTAATTCTCAGATTCTGCCCCA
TCACTTACAGAACCAATTCACCTTTAGAGTGACTAAAAGGAAACGATAGCCTAGCTTTCTAAAGCCACGCTGTGTCT
CCTCAATTACAGAGGGTAGGAATGGGTATACCTCTAACTGTGCAAAGCAGAGTGAAATTCAATTCATAGAATAAC
AACTGCTGGGAATATCCGTGCCAGGAAAAGAAAAATTTCTGGCAAATATTTTGTCACTGCTGTAAAGCAAAATAT
TTGTGAAAGTGCCAAAATAAAGTCTGTCTATGCCAAAAGT

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FIGURE 1663

GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQIPPELQPRGSRAPAALPLNFCRSSLSQRIY
SLKPETEPRHGKGVRRGAKPQQSKKSFREQPSRSTNSVSGVQKPTSERAPRSRGAAAGGGSRRRRRKRAPPSPEP
ESPSLSRNRCGTLLRIRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRAWILLTLGLVACVSAESRAELTSDKD
MYLDNSSIEEASGVYPIDDDDYASASGSGADEDVESPELTTTRPLPKILLTSAAPKVETTTLNIQNKIPAQTKSP
EETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDSLFKRTEVLAAVIAGGVIGFLFAIFLILLLVYRMRKKDEGSY
DLGERKPSSAAYQKAPTKEFYA

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FIGURE 1664

CTTTTTATTTATGAGACAGCTGGAGTGCTGATTGTTAATAGTGAATATCCGGCAGAAAGGAAACAAGCCTTAATG
AGGAATCTGTTGACTCCACTAATGGAGAAGTTTAAATTTCTGTTAGAAAAGTTGATGCTGGCACAAGACGAAGAA
AGGCAAGCCTCTCTAGCAGACTGTCTTAACCATGCTGTTGGATTTGCAAGTCGAACCAGTAAAGCTTTTCAGCAAC
AAACAGACTGTGAAACAATGTGGCTGTTCCGAAGTTTATCTGGACTGTTTACAGACATTCTTGCCAGCCCTCAGT
TGTCCCTTACAAAAGGATATTCTCAGAAGTGGAGTCCGTACTTTTCCTTCATCGAATGATTATTTGCCTGGAGGAA
GAAGTTCTTCCGTTTATTCCATCTGCTTCAGAACATATGCTCAAAGATTGTGAAGCAAAAGATCTCCAGGAGTTC
ATTCCTCTTATCAACCAGATTACGGCCAAATTCAAGATACAGGTATCCCCGTTTTTACAACAGATGTTTCATGCCC
CTGCTTCATGCAATTTTTGAAGTGCTGCTCCGGCCAGCAGAAGAAAATGACCAGTCTGCTGCTTTAGAGAAGCAG
ATGTTGCGGAGGAGTTACTTTGCTTTTCTGCAAACAGTCACAGGCAGTGGGATGAGCGAAGTTATAGCAAATCAA
GGTGACAGAGAATGTAGAAAGAGTGTTGGTTACTGTTATCCAAGGAGCAGTTGAATATCCAGATCCAATTGCACAG
AAAACATGTTTTATCATCCTCTCAAAGTTGGTAGAACTCTGGGGAGGTAAAGATGGACCAGTGGGATTTGCTGAT
TTTGTTTATAAGCACATTGTCCCCGCATGTTTCTAGCACCTTTAAAAACAAACCTTTGACCTGGCAGATGCACAA
ACAGTATTGGCTTTATCTGAGTGTGCAGTGACACTGAAAACAATTTCATCTCAAACGGGGCCCAGAATGTGTTTCAG
TATCTTCAACAAGAATACCTGCCCTCCTTGCAAGTAGCTCCAGAAAATAATTCAGGAGTTTTGTCAAGCGCTTCAG
CAGCCTGATGCTAAAGTTTTTAAAAAATTACTTAAAGGTGTTCTTCCAGAGAGCAAAGCCCTGAGGACTGGATTTT
CCTGTGCCTACTTCATGATCATGAATTCAGTTAATTTATAAAGAGGCGATTTTTGTGTGCCATTACACTGGTC
TTTTTTCACATTGTTTTGAGCTTATTGCAGTATATGTTTTGGGATTTTTCTGTAAAATGGGTGTAATTTTCCTAAT
ACAGGTATGTAACAACAAAAGAAGTTGCCTGCATGCCGGTCCAAATTGTTCTGTATAAAGATGCTCTTAAAAGAC
ACAAGAGTTATCCTAGAACCTTAATTCCTTTTTTATTTGAAATTTTAAGTCAAGTCCTTTATAAAGACCATAGCAG
TGAAAAACAGTGTAATTTTTAAAAAATTGCTGAATATAAAATCTTTGAGAATTTTCTTTATGTGTGAAGACACAA
AGTATGGGGGAAGACAGCAATCAAACTAATTTTTGTAGATAGCCATTTCAATTTCTTTAACTGTTTCAACGCC
AATATGTATTCTACAAAAGAGAATGGTTTTAGGCTCCAGTGTTATACTTTTTTTTTATATATATATATAAAAAATAA
ACTTTACGTAGTAAAAAAAAAAAAAAAAA

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FIGURE 1665

GGGGAGTAGGTCGGGAAGTTCTAGTAGTGGTAGTTCCAGTAGCAATAGCAGAACTAGTAGTACTAGTAGTACTGT
CTCTAGCTCTTCATACAGTTCTAGCTCAGGTAGTAGTCGTACTTCTTCTCGGTCTTCTTCTCCTAAAAAGGAAAA
GAGACACAGTAGGAGTAGATCTCCAACAATCAAAGCTAGACGTAGCAGGAGTAGAAGCTATTCTCGCAGAATTAA
AATAGAGAGCAATAGGGCTAGGGTAAAGATTAGAGATAGAAGGAGATCTAATAGAAATAGCATTGAAAGAGAAAAG
ACGACGAAATCGGAGTCCTTCCCAGAGAGACGTAGAAGTAGAAGTCGCTCAAGGGATAGACGAACCAATCGTGC
CAGTCGCAGTAGGAGTCGAGATAGGCGTAAAATTGATGATCAACGTGGAAATCTTAGTGGAACAGTCATAAGCA
TAAAGGTGAGGCTAAAGAACGAGAGAGGAAAAAGGAGAGGAGTCGAAGTATAGATAAAGATAGGAAAAAGAAAGA
CAAAGAAAGGGAACGTGAACAGGATAAAAGAAAAAGAGAAACAAAAAAGGGAAGAAAAAGATTTTAAAGTTCAGTAG
TCAGGATGATAGATTAAAAAGGAAACGAGAAAGTGAAAGAACATTTTCTAGGAGTGTTCTATATCTGTTAAAAAT
CATAAGACATGATTCTAGACAGGATAGTAAGAAAAGTACTACCAAAGATAGTAAAAAACATTCAGGCTCTGATTC
TAGTGGAAGGAGCAGTTCTGAGTCTCCAGGAAGTAGCAAAGAAAAAGAAGGCTAAGAAGCCTAAACATAGTCGATC
GCGATCCGTGGAGAAATCTCAAAGGTCTGGTAAGAAGGCAAGCCGCAAACACAAGTCTAAGTCCCGATCAAGGTA
GTATACTTTTTAAAGTATTTTGTCTGATTTTTAAAAAAAATTGACTGAATTTATTCAAAGTTGAAAGTGTCTTTT
CTCTCTCTCTTTAATAAACTCAGTTTGGTACTTGATAAATAATCATAGTCTTAAATGTTAGAAATCCTATATAAT
ATTATTTATTAAAAATTGCAGATTTTTAATTTAAAAATACATTTTTATTTTTAAATTTTGTCTTTTCCCTTTTTTT
TCAGATCAACAACCCCTCCCGTCGTAAACGCTGAGGAATGATGTGGCAAGAATGCCATGATGTTCTTTAAAAAA
ATTCCATGAGTTTTAAGGGCTTGTCTCATTATAGAGGCACATTGTGGCTGTGTAGGTGAAACCAGAATCTTTTTT
TTTTAATCTGTAAATAGGTGTACTTTTTCCAATGCTGCTCCAAGTTACTTAATAGGATTTCTTTGTATTACGTTT
TTTTCAAAAAATATAGTGCATAATAAGACTATAAACATGCCATTCTTTTCAGCTGTAATGTTCTTAAAAATTATT
CTTGAATGTACTGTGATGTCAATAAAGCTCTTTAGTTCATTTTTGTAAACTCTTGCACCTTAATTTTTATGGTTT
TAATCTAAGGAACGTACTTTTTATAAAAAAGGCAGCTGGAATTTTGTATAACAGTTTTAAAGGTACCTTCTCTCAC
CTCCCCCAAAGAAAATGGTTTTTACTTAATAGTTTGTCAAAGTTTGTAAATTGTACCCATGGACTTTTGCCAGAT
TCCAACTTTAAGGGTATGAAAGAGGGCTAGAAATAGACCTTTACTTTTCATTGGAAGTATTTGACAACCTTTCTA
AACTTTTCTCCTATTTTGGGGATTTTCAAGTAATATATTCTCTGTGTGTATAACGTGTGGTTCACTCCTGTAAA
ATGAAATTGCTGGAATCAATCAAGCCAGTGCACCAGTAGAGTTATTTGTAAGGAACGATTGTGTTTGACAGTAAT
AGTCAAGTCTGGAACATATTCTACAGTCACCCACTTCTGTTTTAGAAGCATTTTGAAACACTTTTGGGGTTAT
AGAAATAAGACTCATGATTCAATATATTTATTTATTTTTAAAGTATAATATGACCTCAAATCAATGGAGGAAT
GCTGTATTATGCAGGTTTGTGTCAATTTTCATGACATTAAATTTGTCTGATTTTGTCCGTTTCTTAAATTTATGAT
TAGTGAGTGGTCTAACAGTTTAAGGCATTGATAACTTACAAGTAGAGTGGGGCTCTCAAAGCATTTTAACTCAGT
TGCTTTAGGGTCCATTTTTTTATGTAATCACTTACTCAGTGATAAATGAATCTCTGAAAACAAATGCTTTTACAT
TTAATTTAAAAAGAAAACAGGTGCAGGCCACAGAAAAGTTTTAAAGTATGCCTTCTTACCAGCAATAGTTTCATT
TTAAAAATCATGCCAGATTTTTTGCCAAGATCAGTGTTTCCCTCAACATGAAGATAGAAATAGATTTGTATAGTGTG
CTCTTGTAACCTCTACATAGATTATTATATAATTTTGAGCAGTTACACATTTATCTAAAGGAAATAAATCAACTGT
GAATAAATGCATGTTTACCAAAATGGCTGTTTACAGTGCATTTCAGTTCTGATATTTATAAAGATGACATTTTACA
GAATAACTTTAAATAGTTTGAATTTCTATATAGTTTACATCGATCACATCTGGAGACAAAATAAATGTGCA
ATATTTTTTATGTAGGCGAGCTAACACAGTGTACCTAATTGCAGAATTATCTGATTAATTTGTAATAGATAAGTT
GTATAACATTTTCATATCTTAAATGTTTTTTAGATCAATCTTGAAGTGAAATATTTTCAAAAATAAATTTCTACA
GAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1666A

AGGCCACATTGCAGTTGGGCAGCAAGGGCTTGGTAGTGTGAAGGACCCAAGTAACTGTGGGATGCCTCTGACCCC
TCCCACCTCTCCAGAACAGGCTATCCTAGGTGAGAGTGGAGGTATGCAGAGTGCTGCCAGTCACCTGGTTTCCCA
AGATGGAGGGATGATAACGATGCACAGTCCAAAGAGATCGGGGAAGATTCCCTCCAAAACCTCCACAATCATATGGT
CCATCGAGTCTGGAAGGAATGCATCCTCAACAGAACCCAGTCCAAGAGGAGCCAAATGTCAACTCCAACCTCTTGA
AGAAGAGCCTGCTAGCAATCCTGCTACTTGGGATTTTGTGGATCCAACCCAAAGAGTCAGCTGTTCTTGTTCAG
GCATAAGCTTTTAAAACGTTGTGCAGTCGGGCCCAATCGACCTCCACAGTATCTCAACCAGGGTTCAGTGCAGG
ACCATCATCATCTTCATCTTTACCACCTCCTGCTTCTTCTAAGCACAAAACAGCAGAAAGACAGGAAAAAGGAGA
CAAGCTGCAAAAGAGACCCTTAATACCATTTCACCATAGGCCCTCTGTGGCCGAAGAATTATGCATGGAGCAAGA
TACACCAGGACAGAACTAGGGTTGGCAGGGATAGACTCCTCCTTAGAGGTGTCTAGCAGTAGGAAATATGATAA
GCAAATGGCCGTGCCTTCCAGAAATACAAGCAAGCAAATGAATCTGAATCCTATGGATTACCTCATTCCCTAT
ATCCCTCTGCCACCAACACTCAGCCCTCAGCCACGAGGTGAGGAAACAGAGAGTTTGGACCCACCATCGGTCCC
TGTGAATCCAGCCCTTTATGGAAATGGACTAGAACTCCAGCAGTTGTCTACTCTGGATGACAGAACTGTCTCTGT
AGGCCAAAGACTGCCTCTCATGGCAGAGGTGAGCGAGACAGCCTTATATTGTGGGATTAGGCCCTCGAACCCGGA
GTCATCAGAAAAAGTGGTGGCATAGTTATCGTCTCCACCCAGTGATGATGCTGAGTTCAGGCCTCCAGAGCTCCA
GGGTGAGAGATGTGATGCCAAAATGGAGGTAAACTCAGAGAGCACTGCATTGCAAAGACTCTTAGCACAACTAA
CAAACGGTTTTAAAATCTGGCAAGACAAACAGCCCCAGTTGCAGCCACTCCACTTCCTTGACCCATTGCCTCTATC
ACAACAACCTGGAGACAGTTTGGGAGAAGTGAATGACCCATATACCTTTGAAGATGGTGACATAAAATACATCTT
TACAGCCAACAAGAAATGCAAACAAGGGACGGAGAAAGATTCCCTGAAAAAGAATAAGTCAGAGGATGGATTGG
TACCAAGGATGTCACTACACCAGGTCATTCCACGCCGGTGCTGATGGGAAAAATGCCATGTCTATTTTCAGTTC
TGCTACTAAAACAGATGTCCGGCAGGATAATGCTGCTGGCAGAGCTGGCTCCAGTAGCCTTACACAGGTAACAGA
TTTGGCACCTTCCCTGCATGACTTAGACAACATCTTTGATAATTCTGATGACGACGAACCTTGGGGCTGTATCACC
TGCTCTGCGCTCATCAAAAATGCCTGCAGTTGGGACAGAAGACCGACCTCTTGGGAAGGATGGAAGAGCTGCTGT
TCCTTATCCACCAACAGTTGCAGACTTGCAAAGGATGTTTCCCACTCCACCATCTTTGGAACAGCATCCTGCATT
TTCTCCTGTGATGAATTATAAAGATGGGATCAGCTCAGAGACAGTGACAGCATTAGGCATGATGGAGAGCCCTAT
GGTCAGTATGGTTTCAACACAACCTCACAGAATTCAAAATGGAAGTGAAGATGGATTAGGAAGTCCCAAGCCCGA
GGAAATTAAGGACTTTTCATATGTGCACAAAGTTCCATCCTTTCAACCTTTTGTGGGATCCTCCATGTTTGTCTCC
ACTGAAGATGTTGCCGAGCCATTGTTTGTCTACCTCTGAAGATACCTGATGCCTGTCTGTTTGGGCCCTTCATGGGC
AATTCTCTCTAAAATTGAACAACCTGCCCATGCCCCCTGCAGCCACTTTCATTAGAGATGGCTACAATAACGTGCC
TAGTGTGGGAGCCTAGCAGATCCAGACTATCTGAACACACCACAGATGAACACACCCCGTGACGTTGAACAGCGC
TGCCCCAGCCAGCAATAGTGGGGCAGGAGTCTACCATCTCCAGCAACCCCTCGCTTCTCTGTCCCCACACCACG
AACCCCCAGGACCCCAAGAACTCCCAGAGGTGGGGGCACTGCCAGTGGTCAAGGGTCTGTTAAGTATGATAGCAC
CGATCAAGGATCACCAGCCTCCACCCCTCTACTACACGGCCCCCTCAACTCTGTGGAGCCCGCCACCATGCAGCC
AATTCCCGAAGCCACAGCCTCTATGTTACCCTGATTCTCTCCGATTCCGTGATGAATATCTTTAAAGACAGAAA
CTTTGACAGCTGTTGCATCTGTGCCTGCAACATGAACATCAAAGGGGCGGATGTGCGGCTTTACATCCCGATTCT
TTCCAATGAGGACCAGTACCGCTGTACCTGTGGGTTTAGTGCGATTATGAACCGAAACTTGGCTACAATTCAGG
ACTCTTCTTGAAGATGAGTTGGATATTTTTTGGGAAGAAATCTGATATTGGTCAGGCTGCAGAGAGGCGCTTAAT
GATGTGTCACTCCACCTTCCTTCCTCAGGTGGAAGGAACCAAAAACCCCAAGGAGCCACCCATAAGCCTTCTCCT
CCTCCTCCAGAATCAACACACACAACCTTTTGTCTTCACTGAATTTCTTGGACTACATTTCTCTAACAATCGCCA
AACTCTTCCCTGTGTAAGCTGGAGTTATGACCGGGTGCAAGCAGATAATAATGATTACTGGACGGAATGCTTTAA
TGCGTTGGAGCAGGGGCGGCAGTATGTGGATAACCCCACTGGTGGAAAAGTGGACGAAGCTCTGGTGAGAAAGTGC
CACTGTGCACTCTTGGCCTCACAGCAATGTGCTGGACATCAGCATGCTCTCCTCCCAGGATGTGGTTTCGTATGCT
GTTGTCCCTGCAGCCCTTTCTCCAAGATGCCATCCAAAAGAAGCGCACGGGCAGGACCTGGGAGAACATCCAGCA
TGTGCAGGGACCACTCACTTGGCAGCAGTTCCATAAAATGGCAGGACGGGGAACCTACGGTTCGGAAGAATCTCC
TGAGCCGTTGCCATCCCACTCTGCTGGTAGGCTATGACAAGGATTTCTCACCATCTCGCCATTCTCCTTGCC
GTTTTGGGAGAGGCTCTTGTGGACCCATATGGGGGCCACCGTGATGTTGCCTATATTGTGGTGTGTCCAGAAAA
TGAGGCCTTGCTCGAAGGAGCCAAAACCTTTCTTCAGGGACTTGAGTGTGTATACGAGATGTGTAGGCTTGGGCA
GCACAAGCCCCTCTGCAAAGTGCTACGTGACGGGATCATGCGCTGGGAAAACTGTGGCACAGAAGCTGACAGA
TGAGCTTGTGAGTGAGTGGTTTAACCAGCCTTGGAGCGGCGAGGAGAATGACAATCATTCCAGACTCAAACCTTA

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FIGURE 1666B

TGCGCAAGTTTGCCGCCATCACCTAGCACCTTATTTAGCCACTCTGCAGCTTGATAGCAGCCTATTGATACCACC
TAAATACCAGACCCACCAGCAGCAGCACAGGGACAAGCTACGCCAGGGAATGCTGGGCCCCTTAGCTCCAAATGG
ATCAGCAGCTCCCCAGCTGGCAGTGCATTTAATCCCACCTCGAATAGTAGTTCTACAAATCCTGCAGCAAGTAG
TTCTGCATCTGGTTCCCTCTGTGCCACCGGTCTCATCGTCTGCCTCTGCTCCTGGTATTAGCCAGATAAGCACTAC
CTCTTCTTCAGGATTCAGTGGTAGTGTGGAGGGCAGAACCCAGCACTGGGGGCATTTCTGCGGATAGAACGCA
AGGGAACATAGGCTGTGGTGGAGACACTGACCCTGGGCAGAGCTCTTCTCAGCCCTCACAGGATGGACAAGAGAG
TGTTACAGAAAGGGAGAGAATAGGAATTCACGAGCCTGACTCTGCAGACAGCCATGCCACCCTCCAGCTGT
TGTCATTTACATGGTGGACCCGTTACGTATGCTGCAGAGGAGGACTCCACTTCTGGGAACTTTTGGCTGTTGAG
CTTGATGCGCTGCTACACAGAAATGCTGGATAATTTACCTGAGCATATGAGAAATCTTTTCAATTCTCCAGATTGT
GCCTTGCCAGTACATGCTGCAGACAATGAAGGATGAGCAAGTTTTCTACATTCAATACTTGAAGTCCATGGCATT
TTCAGTGTACTGCCAGTGCAGGCGACCACTGCCTACACAGATCCACATTAAATCCCTCACGGGATTTGGGCCTGC
AGCCAGCATTGAGATGACCCCTCAAGAACCCTGAGCGGCCAGCCCAATCCAGCTTTACTCCCCTCCCTTTATATT
GGCCCCAATCAAAGACAAGCAGACAGAGCTGGGAGAGACGTTTGGTGAGGCGAGCCAGAAATACAATGTGCTCTT
CGTGGGCTATTGTCTGTCTCACGACCAGCGCTGGCTTTTGGCTTCTGCACTGACCTCCATGGGGAATTATTAGA
GACCTGCGTTGTAAATATTGCTTTACCAAACAGGTCACGGAGGAGTAAAGTATCTGCACGTAAAATTGGACTACA
GAAGTTATGGGAGTGGTGCATAGGGATTGTCCAAATGACATCTCTACCCTGGAGAGTTGTAATCGGGCGACTTGG
GCGTCTTGGCCATGGGGAGCTTAAAGATTGGAGTATCCTCCTTGGAGAATGTTCACTACAGACAATCAGCAAAAA
GCTCAAGGATGTGTGCCGGATGTGTGGAATCTCTGCCGCAGACTCTCCTTCTATCCTTAGTGCCTGCCTGGTTGC
CATGGAGCCCCAGGGTCCCTTTGTAGTGATGCCAGATGCTGTCAATGGGCTCTGTTTTTGGCCGAAGTACTGC
ACTGAACATGCAGTCACTCTCAGCTCAACACCCCTCAAGATGCTTCTTGTACACACATCTTGGTGTTCCTAACATC
ATCAACCATCCAGGTGGCTCCAGCCAATACCCCAATGAAGATGGGTTTAGCCCCAACAATGATGATATGTTTGT
TGACCTTCCATTCCCAGATGATATGGACAATGATATTGGCATATTAATGACTGGGAACCTCCATTCTCTCCCAA
CTCTTCCCCAGTACCCCTCCCCAGGCTCTCCTTCTGGAATTGGTGTGGGCTCTCACTTCCAGCATAGTCGGAGCCA
GGGTGAGCGTCTTCTTTCTAGAGAAGCACCAGAGGAGCTAAAGCAGCAGCCCCCTGGCCCTTGGGTATTTTTGTATC
AACTGCCAAAGCTGAGAATCTTCCCCAGTGGTTTTGGTCATCGTGTCCCCAGGCTCAAACCAGTGCCCTCTCTT
CTTAAAGGCTTCGTGCATCACACATTTTCAGTAGCACAGACAGACGAACCTTCTGCCTGCCAGGAATTCTCAGCG
GGTTCACACCCCTTGTACTCCAAAACCACGTCCGATGTTTTAAGGTTTTGTTTTGGAGCAGTACAACGCTCTGTC
CTGGCTCACGTGCAATCCGGCCACCCAGGACCGTACTTCTGCTTCCCGTCCACTTTGTGGTGCTCACTCAGTT
GTACAATGCCATCATGAATATACTTTAAATTGGAAAAGCACTTGTCTCTCTGGCTCAGTTCTCTTCTCCCTGCAAC
CTCAGTCCAAGGAACCTGCTACACTCTGCAAATAACCCACATCCTTTTCTTACAGCACTCTCCACAGTCTGCA
CTGTGATTCTTCTCAGCAGGCACATGTCAATTCTGCAGTGTTCATTACCAGAGTGACTCCTTGACACTTCTCTC
ATGGACCTGGAACTTCCATAAGTGGTGACTTTTCAGCCAGTGCGGTGGTGTGTGTAGCCCCAACCCTGGTCCCC
AGGAAGTGGTGGTGGTTGATGGCTTTTCAGCGGGAAACAGAAGAGACAGTGTCTTTTGCACAAGAGTCTGTGTT
TTCAGCCTCTGTATACAATTGAGGGCAGTCTAGCCCTTTGGATGAAATCCTCTTAGTTACTGGTGTATGGCCTGT
GGGTTACCTGAACTCCATAATCGGGGACTTTTTTAAAAATAAGAACCAGCTCAAGTACATGGTTTTCATACTGGGGT
TTCTGTCTCCCTAGTGTTCCTATCCAGATTAGCATGAGTGCTTTGGTTGACTTCAAACCTGTGTGTCAATGCAGA
AGGTCTGGAGACAGCTTCATTTTGTATTATTTAATTTGTTTTGTTCATATGGTTTTTGTGACTTTATTTTTT
TAATTCACAAGGACCAGGTACAGTAGCTGAAACCCAATTCAGATCCACCATAGGATTCTTTGACTACATACCTCT
GTCCTAGAAGCCGGAAAAGGAGTAAAAACACATTGGGGAGATCATGCCATAAAAGTAATATATTCAAAACCACCCA
GCAGTAGGTTTTGTAAACAACAACTGGATTTTTAAAGTTCTGCCATGTTAAGTGGCCAGCATTTTCATGAAGGAT
AACATTTTTATACAGAAGGCAGTCAAGCTCAACTCAGAGCCATGGAGGCAAGTACCTTAATTAGTTTTATATAGT
CACAACGGAAATATATTTTCTAGTGAATTCTTATTGGAAAGCCAGGTCTCTCCTCTCATTAGATCAAAAGGGACTT
ATGTACATACAACAATTGAAAGTGTGTGCTCATGAAATCAGTTATAAATATGGTGAATTTTTTCTGGACCATAGG
AATATTATTTCAAAGAAATATTACAACCTTAACCATTAATTAGTACTTGAAGTTGAGCCTTTGTGGTGGGACTTT
TTAAAAAATGCCTTTTTTAAAGCATTAAATGGCTAATTGAAGTATTTTATGACTCCTCATTCTGGCCCAGAGGGT
TGTCTTTGAAACCCTGTTTCTAACCCCTGTGTTGTGTGTTTCTGTCTGAGGACAGTGGGTGTGTACTGGCCTCCC
GGGAGCCACTGTGACCAGGCCTTTGAGCTCTTGTATCTGTGGAGAGAATCATGCAATTTTTAAAGTTCTTCCA
AGAGACTTCCATGTCCTGGTTATTAACAAAAAAGGAAAAATGTAATAATTGATATGATTTTTGTAAAAGTATTTTT

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FIGURE 1666C

CTTGAAATAATCTAAAGTTTAAAACATTATATTAAAAAAAAAAGTTGTGTGGTGGGAATGTGAAAGCAGAGAAAT
AACTTGTAATGGATAATTTTGTTCCTGTACCACCAGTTGAAGGGGGGTTGACTTTCGCAATGTATAGGATAA
AAAATCTGATATATCAAACCATTTGTATCTAATGTGTACAGTGTAATTTGACTTTAAAAATATTGCAGTGCTAT
TTTTTCTTAATCAGAAAGGAAAATTCTCAAGGCCTTTTGAAGAGCATAAGAAGATGAAGATTGTAACTTGTATA
AAATTATCTTGGTGAGAAGACAAATTGTAAAGTAGATATTTGTAATCTTTTACCACCTTTGGGGTTGCTTTTTTCC
CGGAATTCATCAGAACTTTGAATTTTTTTTTTAAATGGGCTGTTTTAAATGCAGGGGCTTTTCTTCCCTAGAAAC
CCAATTCTAAGCAGAAAAAGAAAAAAACACAAAAAATAAAAAACCCCTACAAAAAACTTTAAAAAAATGGCA
GCAAAGGGTAGTTTTCATCTGGTGTCTTTTATTTAAGTTTTTAAAGTTAAGAAAAGCTGGTGACATATTTATACG
TTTTTGTGCAAAAATAAATGAATGGCAATAGATTTTAAAAAATCTTATTATGTACTTCTGTGTGAAAAAGTCTGT
ATAATATTTCCCTTAAATATGCATTATTTTACTTGTGAGTTTTTACTGAATTAATCTGAAATGTACAAGCCCTG
GATTTGCTACAGAGTGAGAAGTTATTTTATTTTTTTTTTATTTTAAATTTTGGAAATCTGCAGAAATCAGAACTC
TTACCATGGTTTGAACAAAAAAGGGGAAATGGGGAGGGGAAAAGGGTGGGATTGTCCAGCATGCTTGTATGTAT
ATTTTCAGAACCTTTTTTAAATGTAAAAGCTGTACATTTCTGGGAAGTTCTGAATTTCTTTTGTTCCTTTTTTCC
TTCAAGCATTTTGCAGTGAGCTTCTTTTATATATAGCAAACAATTTGAAAGAATACAAAAATATGTGAAGTTCAT
TTAAAAAATAACTACAGTATAGCGCTGGTACAGTACACTAAAAGACTTTGATAAAAAGAAACAATAATAAAAGG
CCTCCATTTTAAATGTCATTATATATACCTTGTGGATGAGAGCTATATACTTTTACACACTTTTTTAGAGGAAT
AAATTATTGAATTACTGAAAAAAAAAAAAAAAAA

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FIGURE 1667

GHIAVGQQGLGSVKDPSNCGMPLTPPTSPEQAAILGESGGMQSAASHLVSQDGGMITMHSPKRSKGIPPKLHNHNV
HRVWKECILNRTQSKRSQMSTPTLEEEEPASNPATWDFVDETPQRVSCSCSRHKLLKRCAVGPNRPPTVVSQPGFSAG
PSSSSSLPPPASSKHKTAERQEKGDKLQKRPLIPFHHRSVAEELCMEQDTPGQKLGLAGIDSSLEVSSSRKYDK
QMAVPSRNTSKQMNLNPMDSPHSPISPLPPTLSPQPRGQETESLDPPSVPVNPALYGNGLQLQLSTLDDRTVLV
GQRLPLMAEVSETALYCGIRPSNPESSEKWWHSYRLPPSDDAEFRPPELQGERCDKMEVNSESTALQRLLAQPN
KRFKIWQDKQPQLQPLHFLDPLPLSQPGDSLGEVNDPYTFEDGDIKYIFTANKKCKQGTEKDSLKKNKSEDFG
TKDVTTFGHSTPVPDGNAMSISSATKTDVRQDNAAGRAGSSSLTQVTDLAPSLHDLDNIFDNSDDDELGA VSP
ALRSSKMPAVGTEDRPLGKDGRAAVPYPTVADLQRMFPPTPSLEQHPAFSPVMNYKDGISSETVTALGMMESPM
VSMVSTQLTEFKMEVEDGLGSPKPEEIKDFSIVHKVPSFQPFVGSMSFAPLKMLPSHCLLPLKIPDACLF RPSWA
IPPKIEQLPMPPAATFIRDGYNNVPSVGLADPDYLNTPQMNTPTVTLNSAAPASNSGAGVLPSPATPRFSVPTPR
TPRTPRTPRGGGTASGQGSVKYDSTDQGS PASTPTSTRPLNSVEPATMQPIPEAHSLYVTLLILSDSVMNIFKDRN
FDSCCICACNMNIKGADVGLYIPDSSNEDQYRCTCGFSAIMNRKLGYN SGLFLEDELDIFGKNSDIGQAAERRLM
MCQSTFLPQVEGTTKKPQEPPI SLLLLLQNQHTQPFASLNFLDYISSNNRQTLPCVSWSYDRVQADNNDYWTECFN
ALEQGRQYVDNPTGGKVDEALVRSATVHSWPHSNVLDISMLSSQDVVRMLLSLQPF LQDAIQKKRTGRTWENIQH
VQGPLTWQQFHKMAGRGTYGSEESPEPLPIPTLLVG YDKDFLTISPFSLPFWERLLLDPYGGHRDVAYIVVCPEN
EALLEGAKTFFRDL SAVYEMCRLGQHKPICKVLRD GIMRVGKTVAQKLTDELVSEWFNQ PWSGEENDNHSRLKLY
AQVCRHHLAPYLATLQLDSSLLIPP KYQTPPAAAQGGQATPGNAGPLAPNGSAAPPAGSAFNPTSNS SSTNPAASS
SASGSSVPPVSSSASAPGISQISTTSSSGFSGSVGGQNPSTGGISADRTQGNIGCGD TDPGQSSSQPSQDGQES
VTERERIGIPTEDSADSHAHPPAVVIYMVD PFTYAAEEDSTSGNFWLLSLMRCYTEMLDNLP EHMNRNSFILQIV
PCQYMLQTMKDEQVFYIQYLKSMASFVYCQCRRLPTQIHIKSLTGFGPAASIEMTLKNPERPSPIQLYSPPFIL
APIKDKQTELGETFGEASQKYNVLFVGYCLSHDQRWLLASCTDLHGELLETCVVNIALPNRSRRSKVSARKIGLQ
KLWEWCIGIVQMTSLPWRVVIGRLGRLGHGELKDWSILLGEC SLQTISKKLKDVCRMCGISAADSPSILSACIVA
MEPQGSFVVMPPDAVTMGSVFGRSTALNMQSSQLNTPQDASCTHILVFPTSSTIQVAPANYPNEDGFSPNDDMFV
DLFPDDMDNDIGILMTGNLHSSPNSSPVPSPGSPSGIGVGS HFQHSRSQGERLLSREAPEELKQQPLALGYFVS
TAKAENLPQWFWSSCPQAQNCPLFLKASLHHHISVAQTDELLPARN SQRVPHPLDSKTTSDVLR FVLEQYNALS
WLTCPNATQDRTSCLPVHFVVL TQLYN AIMNIL

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FIGURE 1668A

GAAGAAGTCCCGGGCGGTACCCGGCCGTAGGCCCATCCTGCAACTCTCTCCGCCGGGTCTCGGGGCAGCACGCC
GGGCCGGGACCCGGAGCCGGAACCCGACACTGAGCCGGACTCAACCGCGGCGGTCCCCAGCCAGCCCGCCCCGTC
GGCGGCGACGACCACCGCGGTGACTGCCGCCGCGGCCCTCGGACGACTCGCCTTCAGAAGATGAACAGGAAGCGGT
GCAGGAGGTTCTAGAGTTGTTTCAGAATCCTCCAAAACAGTCATGACCCTAGACCCACAGCTGTTAAAGCAAC
AGGCGGTCTATGCTTGCTTGCTTGCTTATGCTGACAGTGATGACGATGACAATGATGTTTCCGAAAACTAGCACA
ATCCAAAGAGACAAATGGAAACCAGTCAACTGATATTGATAGTACATTGGCCAACCTCCTAGCGGAGATCGATGC
CATAACAGCTCCTCAGCCTGCAGCTCCTGTAGGAGCTTCTGCTCCACCTCCAACCTCCACCTCGACCAGAGCCAAA
GGAAGCAGCAACATCTACCCTTTCTTCTTCTACTTCAAATGGAACAGACTCCACCCAAACATCTGGTTGGCAATA
TGATACTCAGTGTTCACTGGCAGGAGTCGGAATTGAGATGGGCGATTGGCAGGAAGTCTGGGATGAGAACACGGG
ATGTTATTATTATTGGAATACACAAACAAATGAAGTGACTTGGGAGTTACCCCAATATCTTGCCACACAGGTACA
GGGATTACAGCATTACCAGCCAGTTCTGTGCCAGGTGCTGAAACTAGTTTTGTGGTAAATACAGACATATATTC
TAAGGAGAAAAACGATTTCTGTTTCCAGTAGTAAAAGTGACCAGTCATAGCCAAGCGAGAAGTTAAAAAGGAAGT
AAATGAAGGAATTCAGGCTCTCTCAAATAGTGAGGAGGAGAAGAAAGGGGTGGCAGCATCGCTGCTTGCTCCTTT
ATTGCTGAGGGAATAAAAGAAGAAGAAGAGAGATGGAGAAGAAAAGTAATTTGTAAAGAGGAGCCAGTTTCAGA
AGTAAAAGAAAACAGTACAACAGTAGAAGAAGCAACAACAATAGTAAAGCCACAGGAAATTATGTTGGACAATAT
AGAAGACCCTTCTCAGGAGGATCTTTGCAGTGTTGTCCAATCTGGAGAAAGTGAGGAGGAAGAGGAACAAGATAC
CCTTGAACCTGGAGCTAGTTTTGGAAAGGAAAAAAGCAGAGTTGCGAGCCTTGGAGGAAGGAGATGGTAGTGTGTC
AGGGTCTAGTCCACGTTCTGATATCAGCCAGCCAGCATCTCAAGATGGAATGCGTAGGCTTATGTCTAAAAAGAGG
AAAATGGAAGATGTTTGTTCGAGCTACCAGTCCAGAATCTACCAGTAGGAGTTCTAGTAAACTGGACGAGATAC
TCCAGAAAAATGGAGAACTGCAATTGGTGCTGAAAATTCAGAAAAAATAGATGAGAATTCAGATAAAGAGATGGA
AGTAGAAGAATCTCCAGAGAAAATAAAAGTACAGACAACACCAAAAGTAGAAGAAGAACAGGATTTGAAATTTCA
GATTGGAGAACTGGCAAAATACCCTGACAAGTAAATTCGAGTTTCTAGGCATTAATAGACAATCCATCTCCAACCTT
TCATGTGCTGCTCTTACAGACTGAGACTCGAATTGCAGACTGGCGGGAAGGGGCTCTTAATGGAAACTACCTTAA
ACGAAAACCTTCAGGATGCAGCAGAACAATAAACAGTATGAAATAAACGCCACTCCTAAAGGCTGGTCTCTGCCA
CTGGGACAGGGATCATAGACGGTATTTCTATGTAAACGAACAGTCGGGCGAGTCTCAGTGGGAGTTTCCAGATGG
TGAAGAGGAAGAAGAAGAAAGCCAAGCACAAGAAAATAGAGATGAGACTCTTGCCAAACAGACCTTGAAAGACAA
AACTGGCACTGATTCAAATTCACAGAATCCTCTGAAACTTCCACAGGTTCTCTTTGTAAAGAATCCTTTTCTGG
TCAAGTTTCTTCTTCATCACTCATGCCACTTACTCCATTCTGGACCCTCCTTCAGTCAAATGTTCTCTGTGCTTCA
ACCTCCATTACCCTTGGAATGCCACCACCCCACTCCACCTCCAGAATCACCTCCACCCCTCCTCCACCACC
TCCTCCTGCGGAAGATGGTGAGATCCAGGAGGTAGAGATGGAGGATGAGGGAAGTGAGGAGCCCCCTGCCCCAGG
AACAGAGGAAGATACCCCTTTGAAACCTTCAGCACAAACCACAGTTGTAACCTAGCCAGAGTTTCAGTTGATTCCAC
CATCTCTAGTTCTTCTTCCACTAAAGGAATAAAGAGGAAAGCTACAGAAATTAGCACTGCAGTGGTTTCAGAGGTC
AGCTACCATTGGCAGTTCTCCAGTTCTCTATAGCCAGTCAGCTATAGCTACAGGTCACCAGGCAGCAGGGATTGG
AAACCAGGCAACAGGAATTGGACATCAGACAATACCAGTTAGCCTTCCAGCAGCAGGAATGGGTATCAGGCCAG
AGGAATGAGCCTGCAGTCAAATTACCTTGACTAGCGGCAGCACCTGCAATTATGAGTTATGCAGAATGTTCTGT
CCCAATTGGAGTGACTGCTCCCTCATTCAGCCAGTTCAGGCCCGAGGTGCTGTGCCTACCGCTACCATTATAGA
ACCACCACCACCACCTCCTCCTCCTCCTCCTCCACCACCACCAGCTCCCAAAATGCCACCACCTGAAAAGACAAA
AAAAGGAAGGAAAGACAAGGCAAAGAAGAGTAAGACCAAAAATGCCATCTTTGGTAAAAAAGTGGCAGAGTATCCA
GCGTGAGTTAGATGAAGAGGACAATTCTAGTTCCAGTGAAAGAGGATCGGGAATCAACTGCACAGAAGCGAATTGA
AGAGTGGAACAGCAGCAGCTGGTTAGTGGCATGGCAGAGAGAAAATGCTAATTTTGAAGCCCTTCTTGAGGATTG
GAGAGCAAGGCTGAAGAGAAGGAAAATGGCTCCAAACACATAGTTTTTAAAGTTTTTAAACTTTTTTGTATTATT
GTTTTTTTTGTGTTTCAGTTCAAAGTCTTAACCAGTTTTATTGTCAAATAAACTATAAATGTTATGGGGGAGATCT
TATAAATTTTCTGGGCAAGAGTGTAIGCATACAAAGTTTTTCACTTTTGTGAAATGTAATTTTTCTGTTTTTGC
AGGGATGAGGTGATTGGAATTGCTTTGACCATGCTGCCTTTATTCTCAAACCTGGCAAACCTTAGCATGTTAGGTGT
ATTAACCTCATCAGTCTTGAAGAACATGTGGCTCATGAGTATAACACTTCTGTAGAGGACTCCCTGACAAAAGTG
AAGAATTAACCTCTCCTCCAGAACAAGTGCAATTCAGAAGGCAGCTCTGCATTCTACCTTGCTTGACTGGAATTG
TCTGAAGCTTTTTCTGGCCTCTTTTCTCTAGTCGGCCACCCCTGAAGTGCTGAGGTCTAAGTGTTTTACCTCGTG
CTGATAGATGGCCACACTCTTTAGAGTAGTTCTCATAAGTTCTAGAAGTGGTAGCTCGGTCTGTTTTGCACACTAG

FIGURE 1668B

[illegible]

FIGURE 1669

KKSRVPGRRPILQLSPGPRGSTPGRDPEPEPDTEPDSTAAPVSPQAPSAATTTAVTAAASDDSPSEDEQEAV
QEVPRVVQNPPKPMVMTTRPTAVKATGGLCLLGAYADSDDDNDVSEKLAQSKETNGNQSTDIDSTLANFLAEIDA
ITAPQPAAPVGASAPPTTPRPEPEKAATSTLSSSTSNGTSTQTSGWQYDTQCSLAGVGIEMGDWQEVWDENTG
CYYYWNTQTNEVTWELPQYLATQVQGLQHYQPSSVPGAETSFVVNTDIYSKEKTSVSSSSKSGPVIKREVKKEV
NEGIQALSNSSEEEKKGVAASLLAPLLPEGIKEEEERWRRKVICKEEVPSEVKETSTTVEEATTIVKPQEIIMLDNI
EDPSQEDLCSVVQSGESEEEEEEQDTLELELVLERKKAELRALEEGDGSVSGSSPRSDISQPASQDGMRLMSKRG
KWKMFVRATSPESTSRSSSKTGRDTPENGETAIGAENSEKIDENS DKEMEVEESPEKIKVQTTPKVEEEQDLKFQ
IGELANTLTSKFEFLGINRQISISNFHVLLQTETRIADWREGALNGNYLKRLQDAAEQLKQYEINATPKGWSCH
WDRDHRRYFYVNEQSGESQWEFPDGESEEEEEESQAQENRDETAKQTLKDKTGTDSNSTESSETSTGSLCKESFSG
QVSSSSLMPLTPFWTLLQSNVPVLQPPLPLEMPPPPPPPPPPESPSPPPPPPPPPPAEDGEIQEVEMEDEGSEEPAPG
TEEDTPLKPSAQTTTVTSQSSVDSTISSSSSTKGIKRKATEISTAVVQRSATIGSSPVLYSQAIAATGHQAAGIG
NQATGIGHQTIPVSLPAAGMGHQARGMSLQSNYLGAAAPAIMSYAECSPIGVTAPSLQPVQARGAVPTATIIIE
PPPPPPPPPPPPPPAPKMPPPEKTKKGRKDKAKKSKTKMPSLVKKWQSIQRELDEEDNSSSSEEDRESTAQKRIE
EWKQQQLVSGMAERNANFEALPEDWRARLKRRKMAPNT

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FIGURE 1670

TTTCCTTGTCCAATAAGGTATTTAATATTCACCTTAGGGACTATTAGATGTCCCATTTCTCTTCTCTTTCAATTCT
CTTATCTCTTCTCACCCCAGTGTAACGAATCGCTACAGGTTTTTACCAAATGCTGCAGCAGTAGTTGGAAATGA
GTTATTTTGCATTACTAAAGTGTTCAATCACATTATCACGGGTCACATTTGTATATAACCAGGAGATGGCCAAAT
AACATCTACTGCAGTGATTTTGCAAATTCAGCATAGTCAATGTATCCATCATTGTTCTTGGCATCATCTCTCAAA
ACACCATCTATTATGTTAATCAGTTCATCTTCACTCATTAGTGGTGCCTGTTCACTCCCTTCCTCCTTATGGACA
TGAGTGATGGCTGTGGAGAGTTCTAAGCCATCAAGCAAATTATTGCCATCATAATCATGCATTTTGAAGTAATGG
AGCTGCAATTCTTGTGGCGACATCTCCGCCTCTGGTTTGTGATGACACCTTCTAGATGCTCCATGATATGCTCT
TGGTCGTGCACTGTGTTCTTATCCAGGCCCATGCTGCCGGGTGGGA

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FIGURE 1671A

GGGAACTCCTTCCTCAGCCTCTCGTCAGCGCCGCTTCTCCTGGTTTCTCTTGACAGATGCTGCTGCTAGGGGTGGT
GGGAGCAGCCGTGGGACGCGTGGCCGGGAGCGGGGGGTGACAGCCTGGGATTCCGGGGGGCTTCTCTTCCCTTGTCCT
CCTCCTCTCCTCTCTATTCCCAGTGTGGCCGTGGCTGACACTAAAGACTTTGTAGCCATCAACCCGAGTGCAGTT
TCGATGGAAAATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCCGTGATTGAC
ATCAAAAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAA
CAAATGTGAAGTTAGTCATAGGCGAGCCTTTCATGGCTGGAATAAGTTTGATATTAGTGAAGATGAGCCACTGTG
GAAGAAGTATATTTCTCAGTTTAAAAATCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTAAT
GCATCAGTTTGATGATGCCGTGAGTATCACTGTGGCAATACTTATCGTTGTTACAGTTGCCTTTGTTTCAGGAATA
TCGTTTCAGAAAAATCTCTTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATT
GGAGCATACACTTGCCCCGAGACTTGTTCCAGGTGATACAGTTTGCCTTTCTGTTGGGGATAGAGTTCTCTGCTGA
CTTACGCTTGTTTGAGGCTGTGGATCTTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCCTTGTTCTAA
GGTGACAGCTCCTCAGCCAGCTGCAACTAATGGAGATCTTGATCGAGAAGTAACATTGCCTTTATGGGAACACT
GGTCAGATGTGGCAAAGCAAAGGGTGTGTGTCATTGGAACAGGAGAAAATTCTGAATTTGGGGAGGTTTTTAAAT
GATGCAAGCAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTTCTTTTA
CTCCTTTGGTATAATAGGAATCATCATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAAATGTTTACTAT
TAGTGTAAGTTTGGCTGTAGCAGCAATTCTGAAGGTCTCCCCATTGTGGTCACAGTGACGCTAGCTCTTGGTGT
TATGAGAAATGGTGAAGAAAAGGGCCATTGTGAAAAAGCTGCCTATTGTTGAAACTCTGGGCTGCTGTAATGTGAT
TTGTTTCAGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCAGATGGTCTGCA
TACTGAGGTTACTGGAGTTGGCTATAATCAATTTGGGGAAAGTGATTGTTGATGGTGATGTTGTTTCATGGATTCTA
TAACCCAGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAAACAATACTCTAAT
GGGGAAAGCCAACAGAAGGGGCCTTAATTGCTCTTGCAATGAAGATGGGTCTTGATGGACTTCAACAAGACTACAT
CAGAAAAGCTGAATACCCTTTTAGCTCTGAGCAAAAGTGGATGGCTGTTAAGTGTGTACACCGAACACAGCAGGA
CAGACCAGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAGTACTGTACTACATACCAGAGCAAAGG
GCAGACCTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACT
CAGAGTTCTTGCTTTGGCTTCTGGTCTGAACTGGGACAGCTGACATTTCTTGGCTTGGTGGGAATCATTGATCC
ACCTAGAAGTGGTGTGAAAGAAGCTGTTACAACACTCATTGCCTCAGGAGTATCAATAAAAATGATTACTGGAGA
TTCACAGGAGACTGCAGTTGCAATCGCCAGTCGTCTGGGATTGTATTCCAAAACCTCCAGTCAGTCTCAGGAGA
AGAAATAGATGCAATGGATGTTTACGAGCTTTACAAAATAGTACCAAAGGTTGCAGTATTTTACAGAGCTAGCCC
AAGGCACAAGATGAAAATTATTAAGTCGTACAGAAGAACGGTTTCAGTTGTAGCCATGACAGGAGATGGAGTAAA
TGATGCAGTTGCTCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTGCAAAGAGGC
AGCAGACATGATCCTAGTGGATGATGATTTTCAAACCATAATGTCGTGCAATCGAAGAGGGTAAAGGGATTATAA
TAACATTAAAAATTTCTGTTAGATTCCAGCTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACATT
AATGAACTTTCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATTATGGATGGACCCCCAGCTCA
GAGCCTTGAGTAGAACCAGTGGATAAAGATGTCATTTCGTAAACCTCCTCGCAACTGGAAAGACAGCATTTTGAC
TAAAAACTTGATACTTAAAATACTTGTTTCATCAATAATCATTGTTTGIGGGACTTTGTTTGCTTCTGGCGTGA
GCTACGAGACAAATGTGATTACACCTCGAGACACAACAATGACCTTCACATGCTTTGTGTTTTTTGACATGTTCAA
TGCATAAGTTCCAGATCCCAGACCAAGTCTGTGTTTGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGC
AGTTCTTGATCCATCATGGGACAATTACTAGTTATTTACTTTCTCCTCGCTTCAGAAGGTTTTTCAGACTGAGAG
CCTAAGCATACTGGATCTGTTGTTTCTTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAA
GGTTGAAAGGAGCAGGGAAAAGATCCAGAAGCATGTTAGTTTCGACATCATCTTTTTCTTGAAAGTATGATGCAT
ATTGCATTATTTTATTGCAAACCTAGGAATTGCAGTCTGAGGATCATTTAGAAGGGCAAGTTCAAGAGGATATGA
AGATTTGAGAACTTTTAACTATTTCATTGACTAAAAATGAACATTAATGTTAAAGACTTAAGACTTTAACCTGCT
GGCAGTCCCAAATGAAATTATGCAACTTTGATATCATATTCCTTGATTTAAATTGGCTTTTGTGATTGAGTGAAA
CTTTATAAAGCATATGGTCAGTTATTTAATTAATAAAGGCAAAACCTGAACCACCTTCTGCACTTAAAGAAGTCTA
ACAGTACAAATACACTATCTATCTTAGATAGATATATTTTTTTTTTATTTTTTAAATATTGTACTATTTATGTTGGT
GGGGCTTCTTACTAATACACAAATAAATTTAATCATTTCAAAGGCATTCTATTTGGTTTAGAAGTTGATTCCCA
GGAGTGCCATATTTAGCTACTGTATTTCTTTTTCTTGTAATGTAAGCAGCTCAGATACCATGTGCTATCATTT
TTGTATCAAGTTTTTTGCACAGGATGTGACCCTGTCAGATCACTGTTCTTTCTTTCTTTTGTGATTGAAAAG

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FIGURE 1671B

CCTATACTACAATTTGAAGTAAATTTTGTTCCTT

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FIGURE 1672

MKVARFQKIPNGENETMIPVLTSKKASELPVSEVASILQADLQNGLNKCEVSHRRAFHGWNKFDISEDEPLWKKY
ISQFKNPLIMLLLASAVISVLMHQFDDAVSITVAILIVVTVAFVQEYRSEKSLEELSKLVPPECHCVREGKLEHT
LARDLVPGDTVCLSVGDRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAPQPAATNGDLASRSNIAFMGTLVRC
GKAKGVVIGTGENSEFGEVFKMMQAEAEAPKTPLQKSMDLLGKQLSFYSFGIIGIIMLVGWLLGKDILEMFTISVS
LAVAAIPEGLPIVVTVTALGVMRMVKKRAIVKKLPIVETLGCCNVICSDKTGTLTKNEMTVTHIFTS DGLHTEV
TGVGYNQFGEVIVDGDVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTEGALIALAMKMGLDGLQQDYIRKA
EYFSSSEQWMAVKCVHRTQQDRPEICFMKGAYEQVIKYCTTYQSKGQTLTLTQQQRDVYQQEKARMGSAGLRVL
ALASGPPELGQLTFLGLVGIIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEID
AMDVQQLSQIVPKVAVFYRASPRHKMKIIKSLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEAADM
ILVDDDFQTIMSAIEEGKGIYNNIKNFVRFQLSTISIAALTILISLATLMNFPNPLNAMQILWINIIMDGPPAQSLG
VEPVDKDVIRKPPRNWKDSILTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TTMTFTCFVFFDMFNALS
SRSQTKSVFEIGLCSNRMFCYAVLGSIMGQLLVIFYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEIIKKVER
SREKIQKHVSSTSSSFLEV

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FIGURE 1673

GCTCGGAGCCCGGAGCGTGCCCTCGGCGGCCTGTCTGGTTTTTCACCAATGGAGCAGCTGAGCTCAGCAAAACACCCGCT
TCGCCTTGGACCTGTTCCCTGGCGTTGAGTGAGAACAAATCCGGCTGGAAACATCTTCATCTCTCCCTTCAGCATT
CATCTGCTATGGCCATGGTTTTTCTGGGGACCAGAGGTAACACGGCAGCACAGCTGTCCAAGACTTTCATTTC
ACACGGTTGAAGAGGTTCAATCAAGATTCCAGAGTCTGAATGCTGATATCAACAAACGTGGAGCGTCTTATATTC
TGAAACTTGCTAATAGATTATATGGAGAGAAAACCTTACAATTTCTTCTGAGTTCTTGGTTTCGACTCAGAAAA
CATATGGTGCTGACCTGGCCAGTGTGGATTTTCAGCATGCCTCTGAAGATGCAAGGAAGACCATAAACCACTGGG
TCAAAGGACAGACAGAAGGAAAAATTCCGGAAGTGTGGCTTCGGGCATGGTTGATAACATGACCAAACCTTGTGC
TAGTAAATGCCATCTATTTCAAGGGAACTGGAAGGATAAATTCATGAAAGAAGCCACGACGAATGCACCATTCA
GATTGAATAAGAAAGACAGAAAACTGTGAAAATGATGTATCAGAAGAAAAAATTTGCATATGGCTACATCGAGG
ACCTTAAGTGCCGTGTGCTGGAAGTGCCTTACCAAGGCGAGGAGCTCAGCATGGTCATCTGCTGCCGGATGACA
TTGAGGACGAGTCCACGGGCCTGAAGAAGATTGAGGAACAGTTGACTTTGGAAAAGTTGCATGAGTGGACTAAAC
CTGAGAATCTCGATTTTCAATGAAGTTAATGTCAGCTTGCCAGGTTCAAACCTGGAAGAGAGTTACACTCTCAACT
CCGACCTCGCCCGCCTAGGTGTGCAGGATCTCTTAAACAGTAGCAAGGCTGATCTGTCTGGCATGTCAGGAGCCA
GAGATATTTTTATATCAAAAATTGTCCACAAGTCATTTGTGGAAGTGAATGAAGAGGGAACAGAGGCGGCAGCTG
CCACAGCAGGCATCGCAACTTTCTGCATGTTGATGCCCGAAGAAAAATTTCACTGCCGACCATCCATTCTTTCT
TTATTCGGCATAATTCCTCAGGTAGCATCCTATTCTTGGGGAGATTTTCTTCCCCTTTAGAAGAAAGAGACTGTAG
CAATACAAAAATCAAGCTTAGTGCTTTATTACCTGAGTTTTTAATAGAGCCAATATGTCTTATATCTTTACCAAT
AAAACCACTGTCCAGAAAAA

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FIGURE 1674

MEQLSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNA
DINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLAS
GMVDNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEE
LSMVILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSS
KADLSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGR
FSSP

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FIGURE 1675A

GCCGCGTGCCTCTGCCCGGAGCCGGCGGGACATGCCCGGAGCGCGCGCTGGAGCGGCGCGAGGAGGAGGCGAAC
GTGGTGCTCACCGGGACGGTGGAGGAGATCCTCAACGTGGACCCGGTGCAGCACACGTACTCCTGCAAGGTTCCG
GTCTGGCGGTACTTGAAGGGCAAAGACCTGGTGGCCCCGGGAGAGCCTGCTGGACGGCGGCAACAAGGTGGTGATC
AGCGGCTTTGGAGACCCCTCATCTGTGACAACCAGGTGTCCACTGGGGACACCAGGATCTTCTTTGTGAACCTT
GCACCCCATACCTGTGGCCAGCCACAAGAACGAGCTGATGCTCAACTCCAGCCTCATGCGGATCACCTTGC
AACCTGGAGGAGGTGGAGTTCTGTGTGGAAGATAAACCCGGGACCCACTTCACTCCAGTGCCCTCCGACGCCTCCT
GATGCGTGCCGGGGAATGCTGTGCGGCTTCGGCGCCGTGTGCGAGCCCAACGCGGAGGGGCGGGGCGGGCGTCC
TGCCTCTGCAAGAAGAGCCCGTGCCCCAGCGTGGTGGCGCCTGTGTGTGGGTGCGACGCCTCCACCTACAGCAAC
GAATGCGAGCTGCAGCGGGCGAGTGCAGCCAGCAGCGCCGCATCCGCCTGCTCAGCCGCGGGCCGTGCGGCTCG
CGGGACCCCTGCTCCAACGTGACCTGCAGCTTCGGCAGCACCTGTGCGCGCTCGGCCGACGGGCTGACGGCCTCG
TGCTGTGCCCCGCGACCTGCCGTGGCGCCCCCGAGGGGACCGTCTGCGGCAGCGACGGCGCCGACTACCCCGG
GAGTGCCAGTCTCTGCGCCGCGCCTGCCCGCCAGGAGAATGTCTTCAAGAAGTTCGACGGCCCTTGTGACCCC
TGTCAGGGCGCCCTCCCTGACCCGAGCCGAGCTGCCGTGTGAACCCGCGCACGCGGCGCCCTGAGATGCGCCTA
CGGCCCCGAGAGCTGCCCTGCCCGGAGGCGCCAGTGTGTGGGGACGACGGAGTACCTACGAAAACGACTGTGTC
ATGGGCCGATCGGGGGCGCCCGGGGTCTCCTCCTGCAGAAAGTGCCTCCGGCCAGTGCCAGGGTTCGAGACCAG
TGCCCGGAGCCCTGCCGTTCAATGCCGTGTGCTGTCCCGCGTGGCCGTCCCGCTGCTCCTGCGACCGCGTC
ACCTGTGACGGGGCCTACAGGCCCGTGTGTGCCAGGACGGGCGCACGTATGACAGTGATTGCTGGCGGCAGCAG
GCTGAGTGCCGGCAGCAGCGTGCCATCCCCAGCAAGCACCAGGGCCCGTGTGACCAGGCCCGTCCCCATGCCTC
GGGGTGCAGTGTGCATTTGGGGCGACGTGTGCTGTGAAGAACGGGCAGGCAGCGTGTGAATGCCTGCAGGCGTGC
TCGAGCCTCTACGATCCTGTGTGCGGCAGCGACGGCGTCACATACGGCAGCGCGTGCAGAGCTGGAGGCCACGGCC
TGTACCCCTCGGGCGGGAGATCCAGGTGGCGCGCAAAGGACCCCTGTGACCGCTGCGGGCAGTGCCGCTTTGGAGCC
CTGTGCGAGGCGGAGACCGGGCGCTGCGTGTGCCCTCTGAATGCGTGGCTTTGGCCCAGCCCGTGTGTGGCTCC
GACGGGCACACGTACCCAGCGAGTGATGCTGCACGTGCACGCCTGCACACACCAGATCAGCCTGCACGTGGCC
TCAGCTGGACCCCTGCGAGACCTGTGGAGATGCCGTGTGTGCTTTTGGGGCTGTGTGCTCCGCAGGGCAGTGTGTG
TGTCCCCGGTGTGAGCACCCCCCGCCCGCCCGTGTGTGGCAGCGACGGTGTACCTACGGCAGTGCCTGCGAG
CTACGGGAAGCCGCTGCCCTCCAGCAGACACAGATCGAGGAGGCCCGGGCAGGGCCGTGCGAGCAGGCCGAGTGC
GGTTCCGGAGGCTCTGGCTCTGGGGAGGACGGTGAAGTGTGAGCAGGAGCTGTGCCGGCAGCGCGGTGGCATCTGG
GACGAGGACTCGGAGGACGGGCGGTGTGTCTGTGACTTCAGCTGCCAGAGTGTCCAGGCAGCCCGGTGTGCGGC
TCAGATGGGGTCACCTACAGCACCGAGTGTGAGCTGAAGAAGGCCAGGTGTGAGTACAGCGAGGGCTCTACGTA
GCGGCCCCAGGGAGCCTGCCGAGGCCCCACCTTCGCCCCGCTGCCGCTGTGGCCCCCTTACACTGTGCCCAGACG
CCCTACGGCTGTGCCAGGACAATATCACCGCAGCCCCGGGGCGTGGGCCCTGGCTGGCTGCCCCAGTGCCTGCCAG
TGCAACCCCATGGCTCTTACGGCGGCACCTGTGACCCAGCCACAGGCCAGTGCTCCTGCCGCCCAGGTGTGGGG
GGCCTCAGGTGTGACCGCTGTGAGCCTGGCTTCTGGAACCTTCGAGGCATCGTCACCGATGGCCGGAGTGGCTGT
ACACCCCTGCAGCTGTGATCCCCAAGGCGCCGTGCGGGATGACTGTGAGCAGATGACGGGGCTGTGCTCGTGTAAG
CCCGGGGTGGCTGGACCCAAGTGTGGGCAGTGTCCAGACGGCCGTGCCCTGGGCCCCGCGGGCTGTGAAGCTGAC
GCTTCTGCGCCTGCGACCTGTGCGGAGATGCGCTGTGAGTTCGGTGC GCGGTGCGTGGAGGAGTCTGGCTCAGCC
CACTGTGTCTGCCCCGATGCTCACCTGTCCAGAGGCCAACGCTACCAAGGTCTGTGGGTGAGATGGAGTCACATAC
GGCAACGAGTGTGAGCTGAAGACCATCGCCTGCCGCCAGGGCCTGCAAATCTCTATCCAGAGCCTGGGCCCCGTGC
CAGGAGGCTGTTGCTCCAGCACTACCCGACATCTGCCTCCGTGACTGTGACCACCCAGGGCTCCTCCTGAGC
CAGGCACTGCCGGCCCCCCCCCGGCGCCCTCCCCCTGGCTCCCGAGCAGTACCGCACACAGCCAGACCACCCCTCCG
CCCTCATCGCGACCTCGGACCACTGCCAGCGTCCCCAGGACCACCGTGTGGCCCCGTGTGACGGTGCCCCCACG
GCACCCCTCCCCTGCACCCAGCCTGGTGGCGTCCGCCTTTGGTGAATCTGGCAGCACTGATGGAAGCAGCGATGAG
GAACTGAGCGGGGACCAGGAGGCCAGTGGGGGTGGCTCTGGGGGGCTCGAGCCCTTGGAGGGCAGCAGCGTGGCC
ACCCCTGGGGCACCTGTGAGAGGGCTTCCTGCTACAACCTCCGCGTTGGGCTGCTGCTCTGATGGGAAGACGCCC
TCGCTGGACGCAGAGGGCTCCAACCTGCCCCGCCACCAAGGTGTTCCAGGGCGTCTGGAGCTGGAGGGCGTCGAG
GGCCAGGAGCTGTTCTACACGCCCCGAGATGGCTGACCCCAAGTCAGAAGTGTTCGGGGAGACAGCCAGGAGCATT
GAGAGCACCCCTGGACGACCTCTTCCGGAATTGAGACGTCAAGAAGGATTTCCGGAGTGTCCGCTTGCGGGACCTG
GGGCCCCGCAATCCGTCCGCGCCATTGTGGATGTGCACTTTGACCCACACAGCCTTCAGGGCACCCGACGTG

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FIGURE 1675B

GCCCCGGGCCCTGCTCCGGCAGATCCAGGTGTCCAGGCGCCGGTCCCTTGGGGGTGAGGCGGCCGCTGCAGGAGCAC
GTGCGATTTATGGACTTTGACTGGTTTCTGCGTTTATCACGGGGGCCACGTGAGGAGCCATTGCTGCGGGAGCC
ACGGCCAGAGCCACCCTGCATCGCGCCTGCCGTCTCTGCTGTGACCCCTCGGGCCCCGCACCCAGTCACACA
AGCCAGCCCGTTGCCAAGACCACGGCAGCCCCACCACACGTGCGCCCCCACCCTGCCCCAGCCGTGTGCCC
GGACGTGCGCCCCCGGCCCCCGAGCAGCCTCCAAAGCCCTGTGACTCACAGCCCTGCTTCCACGGGGGGACCTGC
CAGGACTGGGCATTGGGCGGGGGCTTACCTGCAGCTGCCCCGCAGGCAGGGGAGGCGCCGTCTGTGAGAAGGTG
CTTGGCGCCCCCTGTGCCGGCCTTCGAGGGCGCTCCTTCTGCGCTTCCCCACCCTCCGCGCCTACCACACGCTG
CGCCTGGCACTGGAATTCGGGGCGCTGGAGCCTCAGGGGCTGCTGCTGTACAATGGCAACGCCCGGGGCAAGGAC
TTCCTGGCATTGGCGCTGCTAGATGGCCGCTGCAGCTCAGGTTTGACACAGGTTTCGGGGCGGGCGGTGCTGACC
AGTGCCGTGCCGGTAGAGCCGGGCCAGTGGCACCGCCTGGAGCTGTCCCGGCACTGGCGCCGGGGCACCCCTCTCG
GTGGATGGTGAGACCCCTGTTCTGGGCGAGAGTCCAGTGGCACCGACGGCCTCAACCTGGACACAGACCTCTTT
GTGGGCGGCGTACCCGAGGACCAGGCTGCCGTGGCGCTGGAGCGGACCTTCGTGGGCGCCGGCCTGAGGGGGTGC
ATCCGTTTGTGAGGTCAACAACCAGCGCCTGGAGCTTGGCATTGGGCGGGGGGTGCCACCCGAGGCTCTGGC
GTGGGCGAGTGCAGGGGACACCCCTGCCTGCCCAACCCCTGCCATGGCGGGGCCCCATGCCAGAACCTGGAGGCT
GGAAGGTTCCATTGCCAGTGCCCGCCCGCGCGCTCGGACCAACCTGTGCCGATGAGAAGAGCCCTGCCAGCCC
AACCCTGCCATGGGGCGGGCGCCCTGCCGTGTGCTGCCCCAGGGGTGGTGTCTAGTGCAGTGTCCCTGGGGCGT
GAGGGCACCTTCTGCCAGACAGCCTCGGGGACGAGCGCTCTGGGCCCTTCTGGCTGACTTCAACGGCTTCTCC
CACCTGGAGCTGAGAGGCTGCACACCTTTGACGGGACCTGGGGGAGAAGATGGCGCTGGAGGTGCTGTTCTCTG
GCACGAGGCCCCAGCGGCCCTCCTGCTCTACAACGGGCGAGAAGACGGACGGCAAGGGGGACTTCGTGTGCTGGA
CTGCGGGACCGCCGCTGGAGTTCCGCTACGACCTGGGCAAGGGGGCAGCGGTATCAGGAGCAGGGAGCCAGTC
ACCCTGGGAGCCTGGACCAGGGTCTCACTGGAGCGAAACGGCCGCAAGGTGCCCTGCGTGTGGGCGACGGCCCC
CGTGTGTTGGGGGAGTCCCCGTTCCGCACACCGTCTCAACCTGAAGGAGCCGCTCTACGTAGGGGGCGCTCCC
GACTTCAGCAAGCTGGCCCGTGTGCTGCGCTGTCTGCTGCTTTCGACGGTGCCATCCAGCTGGTCTCCCTCGGA
GGCCGCCAGCTGCTGACCCCGAGCAGTGTGCGGCAGGTGGACGTACGTCTTTGAGGTACCCCTGCACC
CGGGCCTCAGGCCACCCCTGCCTCAATGGGGCCTCCTGCGTCCCGAGGGAGGCTGCCTATGTGTGCTGTGTCCC
GGGGGATTCTCAGGACCGCACTGCGAGAAGGGGCTGGTGGAGAAGTCAGCGGGGGACGTGGATACTTGGCCTTT
GACGGGCGGACCTTTGTGAGTACCTCAACGCTGTGACCGAGAGCGAGAAGGCACTGCAGAGCAACCACTTTGAA
CTGAGCCTGCGCACTGAGGCCACGCAGGGGCTGGTGTCTGAGTGGCAAGGCCACGGAGCGGGCAGACTATGTG
GCACTGGCCATTGTGGACGGGCACCTGCAACTGAGCTACAACCTGGGCTCCAGCCCGTGGTGTGCGTTCCACC
GTGCCCCTCAACACCAACCGCTGGTTGCGGGTGTGTCACATAGGGAGCAGAGGGAAGGTTCCCTGCAGGTGGGC
AATGAGGCCCCCTGTGACCGGCTCCTCCCCGCTGGGCGCCACGCAGCTGGACACTGATGGAGCCCTGTGGCTTGGG
GGCCTGCCGGAGCTGCCCCTGGGCCCAGCACTGCCCAAGGCCTACGGCACAGGCTTTGTGGGCTGCTTGGGGAT
GTGGTGGTGGGCCGGCACCCGCTGCACCTGCTGGAGGACGCCGTACCAAGCCAGAGCTGCGGCCCTGCCCCACC
CCATGAGCTGGCACCAGAGCCCCGCGCCCGCTGTAATTATTTTCTATTTTGTAACTTGTGCTTTTTGATATG
ATTTTCTTGCTGAGTGTGGCCGAGGGACTGCTGGCCCGGCTCCCTTCCGTCCAGGCAGCCGTGCTGCAGAC
AGACCTAGTGCTGAGGGATGGACAGGCGAGGTGGCAGCGTGGAGGGCTCGGCGTGGATGGCAGCCTCAGGACACA
CACCCCTGCCTCAAGGTGCTGAGCCCCGCTTGCAGTGCAGCTGCCACCGGTGTCCCGCGCGGGAAGCAGCCC
CGGCTCCTGAATCACCCCTCGCTCCGTGAGGCGGGACTCGTGTCCCAAAAAGGAAGGGGCTGCTGAGGTCTGATGG
GGCCCTTCTCCGGGTGACCCACAGGGCCTTTCCAAGCCCCCTATTTGAGCTGCTCCTTCTGTGTGTGCTCTGG
ACCCTGCCTCGGCCCTCTGCGCCAATACTGTGACTTCCAAACAATGTTACTGCTGGGCACAGCTCTGCGTTGCTC
CCGTGCTGCTGCGCCAGCCCCAGGCTGCTGAGGAGCAGAGGCCAGACCAGGGCCGATCTGGGTGTCTTGACCT
CAGCTGGCCCTGCCAGCCACCCCTGGACATGACCGTATCCCTCTGCCACACCCAGGCCCTGCGAGGGGCTATCG
AGAGGAGCTCACTGTGGGATGGGGTTGACCTCTGCCGCGCTGCCGTGGGTATCTGGGCTGGCCATGGCTGTGTTCT
TCATGTGTTGATTTTATTTGACCCCTGGAGTGGTGGGTCTCATCTTCCATCTCGCTGAGAGCGGCTGAGGGC
TGCCTCACTGCAAATCCTCCCCACAGCGTCAGTGAAAGTCGTCTTGTCTCAGAAATGACCAGGGGCCAGCCAGTG
TCTGACCAAGGTCAAGGGGCGAGGTGCAGAGGTGGCAGGGATGGCTCCGAAGCCAGAA

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FIGURE 1676

AACVLPGAGGTCPERALERREEEANVVLGTGTVEEILNVDPVQHTYSCKVRVWRYLK GKDLVARESLLDGGNKVVI
SGFGDPLICDNQVSTGDTRIFFVNPAPPYLWPAHKNELMLNSSLMRITLRNLEEVEFCVEDKPGTHFTVPVPTPP
DACRGMLCGF GAVCEPNAEGPGRASCVCKKSPCSVVAPVCGSDASTYSNECELQRAQCSQRRIRLLSRGPCGS
RDPCSNVTC SFGSTCARSADGLTASCLCPATCRGAPEGTVCGSDGADYPGECQLLRACARQENVFKKFDGFCDF
CQGALPDP SRSCRNVNPRTRRPEMRLRPESCPARQAPVCGDDGVTYENDCVMGRSGAARGLLLQKVRSGQCQGRDQ
CPEPCRFAVCLSRGRPRCSCDRVTC DGAYRPVCAQDGRTYSDCWRRQQAECRQQRRAIPSKHQGPCDQAPSPCL
GVQCAFGATCAVKNGQAACECLQACSSLYDPVCGSDGVTYGSACELEATACTLGREIQVARKGPCDRCGQCRFGA
LCEAETGRVCVPSECVALAQPVCSDGHTYPTSECMHLVHACTHQISLHVASAGPCETCGDAVCAFGAVCSAGQCV
CPRCEHPPPGPVCGSDGVTYGSACELREAACLQQTQIEEARAGPCEQAECGSGGSGSGEDGDCEQELCRQRGGIW
DEDSGDGFCVDFSCQSVPGSPVCGSDGVTYSTECCLKARCESQRGLYVAAQGACRGPTFAPLPPVAPLHCAQT
PYGCCQDNIT AARGVGLAGCPSACQCNPHGSYGGTCDPATGQCSCRPGVGGRLRCRCEPGFWNFRGIVTDGRSGC
TPCSCDPQ GAVRDDCEQMTGLCCKPGVAGPKCGQCPDGRALGPAGCEADASAPATCAEMRCEFGARCVEESGSA
HVCPMILTCPEANATKVCSDGVTYGNECQLKTIACRQGLQISIQSLGPCQEAVAPSTHPTSASVTVTTPGLLLS
QALPAPP GALPLAPSSTAHSQTT PPPSSRPRTTASVPRTTVWPVLTVPPTAPSPAPSLVASAFGESGSTDGSSDE
ELSGDQEASGGGSGGLEPLEGSSVATPGPPVERASCYNALGCCSDGKTPSLDAEGSNCPATKVFQGVLELEGVE
GQELFYTP EMADPKSELFGETARSIESTLDDLFNRNSDVKKDFRSVRLRDLGPGKSVRAIVDVHFDPTTAFRAPDV
ARALLRQIQVSRRRSLGVRRLQEHVRFMDFDWFPAFITGATSGAIAAGATARATTASRLPSSAVTPRAPHP SHT
SQPVAKTTAAPTTRRPPTTAPSRVPGRPPAPQQPPKPCDSQPCFHGGTCQDWALGGGFTCSCPAGRGGA VCEKV
LGAPVPAFEGRSFLAFTLRLAYHTLRLALEFRALEPQGLLLYNGNARGKDFLALALLDGRVQLRFDTGSGPAVLT
SAVPVEPGQWHRLELSRHWRRTLSVDGETPVLGESPSGTDGLNLDTDLFVGGVPEDQAAVALERTFVGAGLRGC
IRLLDVNNQRLELGIGPGAATRGSGVGECGDHPCLPNPNCHGGAPCQNL EAGRFHCQCPPGRVGPTCADEKSPCQP
NPCHGAAPCRVLP EGGAQCECPLGREGTFCQTASGQDGS GPF LADFN GF SHLELRGLHTFARDLGEKMALEV VFL
ARGPSGLLLYNGQKTDGKGDFVSLALRRRLEFRYDLGKGAAVIRSREPVTLGAWTRVSLERNRKGALRVGDGP
RVLGESPVPHTVLNLKEPLYVGGAPDFSKLARAAVSSGFDGAIQLVSLGGRQLLTPEHVLRQVDVTSFAGHPCT
RASGHPCLNGASCVPREAAVCLCPGGFSGPHCEKGLVEKSAGDVT LAFDGRTFVEYLN AVTESEKALQSNHFE
LSLRTEATQGLVLWSGKATERADYVALAIVDGHQLSYNLGSQPVVLRSTVPVNTNRWLRVVAHREQREGSLQVG
NEAPVTGSSPLGATQLD TDGALWLGLPELPVGPALPKAYGTGFVGCLRD

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FIGURE 1677

GGCTTACAGGAGGGCAGCTCTGCAGTTGGGAGGGGCACCGTCCGGAGGAGACCAGGCCTCTACACACCCCCCACT
CTACTTATCATCCCTGCTCACACACCCCTTGTCCAAGGCTTTATGCATCGGATTTATTTTTCCAAATCAAGAGGAC
AGTGATAGATGCATTTTCCCAGGCTGTCTCAGAAAGGTCGCTAAATGTATACTGTTGTCAGAATTGCTGAGATC
TCCCCCACTTTTGGTTTTTGCAGCAGTAAAACTCTTCCACTGTGACTTATTTTCTCTCTCAGGCAGCCAGCC
ACCTGGTCCCTTGTGCTGACTCTAGCACAGTGGCCAGGATCCAATACGAGTCCAGGGGTGACCGCAGGATGGTGG
GGGCAGCGGGCTTCTCCACCTACCCAGCCACCAAGGCCCTGACGCACTGCCTCCTGCACCTTCAGCACATCCCT
GTGCACAGCTGGAAGGGTGCATGGCCCCGCTACCTTTGTTTCAGATGGGTGGAAACGCTGATGATAACGAGTCCTC
CCTGCCGTGCCCTGCCACGGAGCAGGCATTGTGAAGTGGCTGGTGTGTTGCAGTCCACGTGGCATGGCCTCCAG
CCCAACCCACAGTGGAGACTGGAGACAGGGCAATGAGTCTGGTGGGGGCACGTGGACATGCCCCATAGGGGGCCC
CACCCAGACTTAACAGGCAAGGTCTGGGCATTGCGCGACGCAGGACTCAATGCTAAAGCAAGCCTGCCTGGCTC
TGTGCCAGGGCCCCCTCTTCTGATTTACACATCCCATTTTTACACAGACCCTTCCTTCTTAATAAAGGCTGACAGT
TCTGTTGGCAGCCAAGAACCCACACCATGAAGACAGGGAGTGAGGGGCCTTTGTGCCAACTCCAGCACAGCTGC
GTTCTGGGGTGTGTGAGAGGCATGTTTCGTGTCTGTGCGCTGGTGGTCTCGTGAGACAGTTCGAGGACGGGGAAA
TTGCAGGGTGGTGGGGCGTGAGGCTTATATGTGGAAGTGTGAGAGTTCGCCTGCAGACGGATCTGGATATAC
ACTATGTATAATTGTTACGTGTAATTTAAAAATATATCTGTTTGCCATCGTCATGAGAAGATTATATGTAAGGCTC
TGAAGGGAGAGGGAGATGTACATTCTGCCAGGCTCCTGGGGACCTTATCCGAGTCAATGAAATTGATGACTGTTGA
TCCAGTGGTGCAAGAAGCTACACTCCATGTGTTCATCACGCTTATGACTCCTAATGTATTTTTAAGGCAAAAAATG
TCAGCCGACTCCATCTTACCCCTCGATTCCCTCGAGTCCAGCCTTTCTGTGCCAGTGCTTCACTGAGCCACAACG
CTCTCGCCATCGGGACCCGGCTGGGCCTGGAGTCTCGGGGCACAGTTGCCATGGAGCCCTCCTGGGTCATTCTAC
AAATGTGCTGAGTGCCAGCTGAAAACCCACAGGAGATGGAGTACCTTGGCCAAGCTTAAAGAGAAGATTTTCTC
AGGGTATTTATTAGTGTGTCCAGCAGGGTCAGGAAGCAGGATGGAAAGATGCATTACAGACTGTTAATTTATTAAC
AAGGCAAATGATTTTGTGTTTCTTGATGACAGACTATTAAGTTTGGGACTTATTTTCCATTTGAGAAGTTATAA
TATATATTTAAGATGATAAGTTTCTGCTTAAGTTGTGCCTTTCAGCTTCAATGAGTTTAAGGAGCACTAAGGT
AATGATACCAATGAGGGTTGGTTTATTATCAAACCTGAATAGCTGTGGTTTCTCCAGTAAATATTTTCTTCTACT
GAACATGGAGCCATTATTAAGAGTTGTGTGTTTTTTATTATGTACATTTGTATATTTTTTTGCTTGTGTTGATGTT
CTATTTTTCTAATAGTTTTCTTTTAGTTTCTTAAAGTTGTGATACTAGATTTAGATTCTGATGCTAACTGCAAT
CAGGTGGTCTCTGCTGGGTCTCTCCTGCTTTTATTTTACTTTAAGGACAAGTGTAGTTGTGCTCCACCACCTTT
CAAAAAATGTGAAACTGCCCTGCCTCCCCTTTTGTGCTGACAACACTGTGTACATTGACCACTTCCTACCATACTT
TATGTTGTAAATCAAACCTCTTTTGTGGTACATTATCTCATGCTTCTGCAAATTCGAATAAATTCTATGGCTTCC
AAAAAAAAAAAAAAAA

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FIGURE 1678

MKLMTVDFVVQEATLHVSSRL

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FIGURE 1679

GCCTCACCACAGAGGCAAGACAAGGGTCCATATCGCGGCATCCGGCTCCCGCCCGTCTTCAGGAGAGAAAGAAAA
AATAAAATATACTTGGGGAAGTTGTACCTGCCAGAATTAGTAAGAGCTTTCTTTAAGAAGACATTTGTCAAACCTC
AACAAATTGAAGGTTAACACCTTAAGAGTTGTAGTTACTGACCAGAAATATGGACAGACTTCTTAGACTTGGAGG
AGGTATGCCTGGACTGGGCCAGGGGCCACCTACAGATGCTCCTGCAGTGGACACAGCAGAACAAGTCTATATCTC
TTCCCTGGCACTGTTAAAAATGTTAAAACATGGCCGTGCTGGAGTTCCAATGGAAGTTATGGGTTTGATGCTTGG
AGAATTTGTTGATGATTATAACCGTCAGAGTGATTGATGTGTTTGCTATGCCACAGTCAGGAACAGGTGTCAGTGT
GGAGGCAGTTGATCCAGTGTTCCAAGCTAAAATGTTGGATATGTTGAAGCAGACAGGAAGGCCGGAGATGGTTGT
TGGTTGGTATCACAGTCACCCTGGCTTTGGTTGTTGGCTTTCTGGTGTGGATATCAACACTCAGCAGAGCTTTGA
AGCCTTGTCGGAGAGAGCTGTGGCAGTGGTTGTGGATCCCATTGAGAGTGTAAGGAAAGGTTGTTATTGATGC
CTTCAGATTGATCAATGCTAATATGATGGTCTTAGGACATGAACCAAGACAAACAACCTTCGAATCTGGGTCACTT
AAACAAGCCATCTATCCAGGCATTAATTCATGGACTAAACAGACATTATTACTCCATTACTATTAATACTATCGGAA
AAATGAACTGGAACAGAAGATGTTGCTAAATTTGCATAAGAAGAGTTGGATGGAAGGTTTGACACTTCAGGACTA
CAGTGAACATTGTAAACACAATGAATCAGTGGTAAAAAGAGATGTTGGAATTAGCCAAGAATTACAATAAGGCTGT
AGAAGAAGAAGATAAGATGACACCTGAACAGCTGGCAATAAAGAATGTTGGCAAGCAGGACCCCAAACGTCATTT
GGAGGAACATGTGGATGTACTTATGACCTCAAATATTGTCCAGTGTTTAGCAGCTATGTTGGATACTGTCGTATT
TAAATTAA

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FIGURE 1680

MDRLLRLGGGMPGLGQGPPTDAPAVDTAEQVYISSLALLKMLKHGRAGVPMEVMGLMLGEFVDDYTVRVIDVFAM
PQSGTGVSV EAVDPVFQAKMLDMLKQTGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVAVVVDPIQS
VKGKVVIDAFRLINANMMVLGHEPRQTTSNLGHLNKPSIQALIHGLNRHYYSITINYRKNELEQKMLLNHKKSW
MEGLTLQDYSEHCKHNESVVKEMLELAKNYNKAVEEEDKMTPEQLAIKNVGKQDPKRHLEEHVDVLMTSNIVQCL
AAMLDTVVFK

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FIGURE 1681A

AAAATACTTGCCCTTTGGAAAAAATCATTCTGGCGTCCACATTCAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCGGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACCTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCTTGAGGCAGAAAGCCGCTTTGATTTACTCAGAAC
ACCAAATCAGTCTCCATTTTCTTGACTCAGACTACACCCAAGAGATTGCTTCCTTCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATAACCATTCAACTTGAATCTTCCTTACCCAC
TTTGTATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAACTTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTCTTCCCATCTGAGGCATGGATTTATTTCTTTTTTAAAGAA
ATCCAAATTTTTTAAAAGAAGGGATCTTATTTTTTAAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCCTTTTTTAAAAAAGGAAAGAAAGAGTGTTTGTCTT
ACAGGCTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAACTAGTGTGACTGTCTTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCCATAAGAAAAGCCTTTCACCCCTTCGGAAGATCTTTTCATTTTCATTTTTCTTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTTTAAAAGCGTTTCACTAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTTTATTTAATGAATTTACTCATATTTAAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAAGAAAGATGCT
AAGTTTTCTAGTGCTTCCTTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTTTGACCTGTTTCACAGGCATC
TCCTTTGTGGACTCATTTGTGTCTCTTCCTTAGGCTAATAGTCACCATTTATCATGGACGGTTGTCTAGAGTGTTG
AAGCACACTTAACTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCTTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAAACCTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTTATAAACTTCTTATTGAGATCAGATGACTTCTGAATAGCATTTGCTGTATTTTTTCCAAGGTAAAGA
ATATCTTTTTTCAGATTTTTCTTTCTTTCTTTAATGTCAGAAATAGAAGAAATCTTTTCTACCGACCTTGTGCCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTTCCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAACACATAAACGACATACTTTGTTTTGTGGGACAACCTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTTCGTTCCATATTGTATCCCAAACCAACTGATTTTAACTCTACAGAGATGCCTACTTGTCTTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACTTCCTGCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTTCTGTATCAGTCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTGTTGCTTTGACAAGACTGGAACCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAAATGCACGATTTCTTTCACCAGAAGAAAATGTGTGCAATGAGATGTTGGTAAAATCCCAGTTTGTGCTTGTA
TGGCTACTTGTCAATTCACCTACAAAAATTGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAAATGTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCCCACAGTGTTTC
GTCTCCCCAAACAACTGCTTCCTGAATCTACCCCTGCAGGAAACCAAGAAATGGAGCTGTTTGAACCTCCAGCTA
CTTATGAGATAGGAATTGTTGCCAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCTGTGCGATTTTCAAACGTTTTTGAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGCACACAGAA
AATTGGAGTCAAACTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAAATTAAAGCAAGAACCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACA
TTCGCACCGTCATGGTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTTCTAAGTTGATGTTGCATGGCACCGTGTTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGA

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FIGURE 1681B

AGAGGGGCACACGGAGGCATTTCCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTTCCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTTAAGTAAGTACTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCCACTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTTATTCACGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTTATAGTAGTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAAACGTGTGCAGTTTTTACTCTATTTATTTTGTTCCTCATGTTTATGAAAGTCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAATATTCATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTTACACATTTTTAAT
GTATTAATAATTTGGTAATTATGTGTACATTAAATTAATAAAAGTTACTTCTAGTTATGATTTGTGAATTCCCTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTAAATTTGATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTCATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAATAAAAATTTTAATGAATGAAATAA

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FIGURE 1682

MSEIEEIFSTDLPDGMVPIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLLCLVAVAGIGFIY
TIINSILNEVQVGVIIEESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVNCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMFEAIGWILEEATE
EETALHNRIMFTVVRPPKQLLPSTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNI SRDAIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMTGDSMLTAVSVARDCGMILPQDKVIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTRYHFAMNGKSFVILEHFQDLVPKMLHGTVFARMAPDQKTQLIEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFSSDFHNCAFYSLV

[illegible]

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FIGURE 1683B

CGCGTCGTGCATAGGCAAAGAAGGATTAGGCTGTTTTCTTTTTTAAAGTACTGTAGCCTCAGTACTGGTGTAGTGT
GTCAGCTCTGTTTACGAAGCAATACTGTCCAGTTTTCTTGCTGTTTTTCCGGTGTTGTACTAAACCTCGTGCTTG
TGAAGTCCATACAGAAAACGGTGCCATCCCTGAACACGGCTGGCCACTGGGTATACTGCTGACAACCGCAACAAC
AAAAACACAAATCCTTGGCACTGGCTAGTCTATGTCTCTCAAGTGCCTTTTTGTTTGTACTGGTTCATTGTGTT
ACATTAACGACCCACTCTGCTTCTTGCTGGTGAAAGCCCTGCTCTTTAATCAAACCTCTGGTGGCCCACTGACTAA
GAAGAAAGTTTATTTTCGTGTGAGATGCCAGCCCTCCGGGCAGGCAAGGGCTCTGAAGATTTGGCAACGTGGCT
TAATTGTTCTGCTTTTTCTGTAGTTCAATTTTCATGTTTCTTGACCCTTTTGTATAAAGCTACAATATTCTCTCTT
ATTGTTCTTTTCATATGGAATGTATTTTCAAATGTAACTCTCTTCTCTTCTCTCTCTCTCTCTCTCTCTCTCTT
TCTCTCTTAGAATTGGAGGATTTGCCATTGTCCAGGAAAGAAACTTGCAGCTTTAACCTGCTGGGAATGGCAAAC
GATTTTACTAGACTTTATGTTTAAAAATAAATAAATAAGGGAAATTCCTAACTTTGCCCTCCAAAGTCTAACTTT
GGTTTTCTTGTTAACTGGTTAAAGTGACAGTATCTTTTTTCTTATCTATTCTATTCAAATGACCTTTGATAGA
AATGTTGGCATTTAGTAGAAATAGTGATAAGTTGAGGAAAGAAATAATACAAATTGGCTTTCAAGTGAGACCCAA
AGGAAGAACTGGATAAAATCTTCCAAATCCAAAAGCATGAGATTTTTCTATCCAAATATGCAAAAATGACCCAAG
AGAAGTTTCTTATTTTGCTACTGAGTCACACAAGGGAAGTGGAAGGAAGAACAGTTAATTTAAGAATGAAACTAT
AAATCCTGATGCCTGGGGGTCAAGTATTTTAAAGATAAGAGGGGGGAAAAACACATAAAGTCAAACAAATGTTTTAA
AAATTCATAACAGCAACCTTGAAAAATAGACTTAAATGAATGCTTCTAGAACTTCCAGCGGCTCACAAAAGAAAT
AAGCCTGCCTTAGGGCTGGCAACATCTAAGCCTCTAACAGCACAGGGAAGCAAATATCTTACCAGGCAGCCTATG
AATTAACCCAAAGAAGCTTTGGTTGGTTTTGGTGGATTTTTATCATGCCATGTTGGACATGAGATTTTTTAGATC
TTCTTTCCACATTGCTAGACGTCTCACICAAAGACATTTGTTGGGAGTCACATTTGCATCATAGACGAGACAGT
CCATTCATCTTAGTTAAATTGGATTGAGAATGCCTTTTGTTCAGGAAAATATTGATCACCATGAAAGAAGAAAT
AGTTTTTTGTCCCCAGAGACATTCATTTAGTTGATATAATCCTACCAGAAGGAAAGCACTAAGAAACACTCGTTT
GTTGTTTTTAAAGGCAACAGACTTAAAGTTGTCCTCAGCCAAGGAAAAATGATACTGCAACTTTAAAAATTAAAG
TATCTTGCACTGATAAATATATTTAAAAATTGTATGTTTATAAAGTTATTAATTTGTAAAGGCAGTGTTACAAAA
TGTTTCAGTTTATATTGTTTTAGATTGTTTTGTAATTTTTAAAGGTGTAAATAACATATTTTTCTTTATGGAAA
TCTAAAGCTTTCTGTAGTAAAATGTTTTCAATTTTACTGGTATATTATTGCTTCATGTTTTGTACCATCATAAGAT
TTTGTGCAGATTTTTTTTTTACAGAAATTATTA

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FIGURE 1684

MERGLPELLCAVLALVLA
PAGAFRNDKCGDTIKIES
PGYLTSPPGYPHSYHPSE
KCEWLIQAPDPYQRI
MINFNP
HFDLED
RDCKYDYVEVFDGENENG
HFRGKFCGKIAPPPVVS
SGPFLFIKFVSDYETHG
AGFSIRYEIFKRGPECS
QNYTTPSGVIKSPGFPE
KYPNSLECTYIVFAPKM
SEIILEFESFDLEPDSN
PPGGMFCRYDRLEIWDG
FPDVGPHIGRYCGQKTP
GRI
RSSSGILSMVFYTD
SAIAKEGFSANYSVLQSS
VSEDFKCMEALGMESGE
IHSDQITASSQYSTN
WSAERSRLNYPENGWTP
GEDSYREWIQVDLGLLR
FVTAVGTQGAISKETKK
KYYVKTYKIDVSSNGED
WITIKEGNKPVLFQGN
TNPTDVVVAVFPKPLIT
RFVRIK
PATWETGISMRFEVYGCK
ITDYP
CSGMLGMVSG
LISDSQITSSNQGDRN
WMPENIRLVT
SRSGWALPPAPHSYIN
EWLQIDL
GEEKIVRGIIIQGGKH
RENKVFMRKFKIGYSN
NGSDWKMIMDDSKRKAK
SFEGNNNYDTPELRTF
PALSTRFIRIYPERATH
GGLGLRMELLGCEVEAP
TAGPTTPNGNLV
DECDDQANCHSGTGDD
FQLTGTTVLATEKPTV
IDSTIQSEFPTYGFNCE
FGWGS
HKTFCHWEHDNHVQLK
WSVLTSKTGPIQDHTG
DGNFIYSQADENQKGK
VARLVSPVVSQNSAHC
MTFWYHMSGSHVGT
LRVKLRYQKPEEYDQ
LVWMAIGHQGDHWKEG
RVLLHKSLKLYQVIFE
GEIGKGNLGGIAVDDI
SINN
HISQEDCAKPADLDKKN
PEIKIDETGSTPGYEGE
GEGDKNISRKPGNV
LKTLDPILITTIAMSA
LGVLLGAVCGVVLYC
ACWHNGMSERNLSA
LENYNFELVDGVK
LKKDKLNTQSTYSEA

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FIGURE 1685A

ATTTATGCTCTCAGCCTTGTTGTCAATTTGGAAGCAGTTGTTTCATCTGAGTTCAGAAGTAGCATTCCCGTGT
ACAAAAAAGGTGGAAGAATGAGAAACATCTTCACACCAGCAGGACACAAATAGTACATGTGAAATTTCCAAGCA
TTATGGTTTACAGAGATGATTATTTTCATCAGACATTCCATCTCTGTATCTGCAGTGATAGTACGCGCCTGGATT
CTCACAAATACAGTGGCAGAGACTGGAATGTTAAATGGGAGGAAAACCTTGCTCCATGCTGTAGCAAAGAATTATA
CCCTCCTGCAGACCATCCCGCCTTTTGAACGCCCTTTCAAAGATCATCAAGTGTGCCTTGAGTGGAAACATGGGT
ATATTTGGAACCTTCGGGCAAACAGGATTCCACAGTGTCTCTGGAAAATGATGTGGTTGCCCTGCTTGGCTTTC
CTTATGCCTCCAGTGGAGAAAACACAGGCATTGTCAAGAAGTTCCCGAGGTTTCGGAACCGAGAGCTGGAGGCCA
CTCGACGCCAGAGGATGGATTACCCAGTGTCTTACTGTTTCATTGTGGCTTTATTTACTCCATTATTGCAAGGCCA
ACCTCTGTGGGATTCTGTACTTTGTTGACTCTAATGAGATGTACGGCACACCTTCTGTATTTCTTACGGAAGAGG
GCTATTTGCATATTCAGATGCATCTTGTCAAAGGGGAAGACCTTGCTGTAAAACTAAATTCATCATACCTTTGA
AGGAGTGGTTTCGACTGGATATCTCTTTTAAACGGAGGCCAGATAGTAGTAACCACTAGCATTGGACAGGATTTGA
AAAGCTACCACAATCAGACCATTAGCTTCCGGGAGGATTTCCATTATAATGACACAGCTGGGTACTTCATTATTG
GAGGGAGCAGGTATGTGGCTGGCATTGAAGGGTTTTTTGGACCCCTGAAGTACTATCGCCTTCGCAGTCTGCACC
CCGCCCAGATTTTTAATCCCTCCTTGAGAAGCAACTTGCTGAACAAATCAAGTTATATTATGAAAGGTGTGCTG
AGGTTCAAGAAATAGTATCTGTGTATGCATCTGCAGCAAAGCACGGGGCGAGAGACAAGAAGCATGCCACCTCC
ACAACCTCTACCTGGACCTCCAGCGCAGGTATGGGAGACCTCGATGTGCAGAGCCTTCCCTGGGAGAAGGAGC
TGAAAGACAAACACCCAGCTTGTTCCAGGCATTGCTGGAGATGGATCTGCTGACCGTGCCAAGGAACCAAAATG
AATCTGTATCAGAAATCGGTGGGAAGATATTTGAGAAGGCTGTAAAGAGACTCTCTAGCATTGATGGTCTTCACC
AAATTAGCTCTATCGTCCCCTTTCTGACGGATTCCAGCTGCTGTGGATACCATAAAGCATCCTACTACCTTGCAG
TCTTTTATGAGACTGGATTAAATGTTTCTCGGGATCAGCTGCAGGGCATGTTGTATAGTTTGGTTGGAGGCCAGG
GGAGTGAGAGGCTGTCTTCAATGAATCTTGGGTATAAACACTACCAGGGTATTGACAACCTACCCCTGGACTGGG
AACTGTCTGATGCCTACTACAGCAACATTGCCACCAAGACACCCCTTGACCAGCACACACTGCAAGGAGATCAGG
CATATGTTGAAACAATTAGACTAAAAGATGATGAAATACTCAAGGTACAAACCAAGAAGATGGAGATGTCTTTA
TGTGGTTGAAGCATGAAGCTACCCGAGGCAATGCAGCAGCTCAGCAACGATTGGCCCAGATGCTGTTCTGGGGGC
AGCAAGGTGTGGCCAAGAATCCCGAAGCAGCAATTGAGTGGTACGCCAAGGGCGCCCTGGAGACGGAGGATCCTG
CGTTAATCTATGACTATGCCATTGTGCTATTCAAGGGTCAAGGAGTAAAAAAGAACAGACGGCTTGCCTTAGAGC
TGATGAAGAAAGCAGCTTCCAAGGGATTGCATCAGGCAGTCAATGGCCTGGGATGGTATTACCACAAATTCAGA
AAAATTACGCCAAAGCAGCAAAGTACTGGTTAAAAGCAGAAGAAATGGGGAACCCAGATGCGTCATACAATCTTG
GAGTCTGCATTTGGATGGCATCTTCCCTGGAGTTCTTGGAAGGAATCAAACCTTTAGCTGGTGAATATTTCCATA
AGGCTGCGCAAGGTGGACACATGGAAGGGACCTTGTGGTGTCTCTCTACTATATCACAGGCAACCTGGAGACAT
TCCCTAGAGATCCTGAGAAAGCTGTTGTATGGGCAAAACATGTAGCTGAGAAAAATGGCTACTTTGGGCCATGTCA
TCCGCAAGGCCCTCAATGCCTACCTGGAAGGTTTCATGGCATGAAGCTTTGCTGTATTATGTTTTAGCAGCAGAAA
CTGGAATTGAAGTGTCACAGACAAATTTAGCACACATCTGTGAGGAGAGGCCAGACCTGGCCAGGAGATACTTGG
GTGTTAACTGTGTTTGGAGATACTATAATTTCTCTGTTTTTCAAATCGATGCTCCTTCCTTTGCATATTTGAAGA
TGGGAGACCTTTACTACTATGGCCACCAAAACCAGTCACAAGACCTGGAGTTGTCTGTGCAGATGTACGCCCCAAG
CCGCCCTGGATGGAGACTCCCAGGGATTTTTTAACTGGCCCTGCTAATCGAGGAAGGTACGATAATCCCACACC
ATATCTTGGATTTCTTGGAAATTGACTCAACTCTCCATTCTAATAACATCTCCATTCTCCAGGAACCTGTACGAAA
GGTGCTGGAGCCACAGTAACGAGGAGTCTTTCAGCCCCCTGCTCCTTGGCCTGGCTTTACCTGCACTTGCGGCTTC
TCTGGGGTGCTATCCTGCACTCAGCCCTGATCTACTTTCTGGGAACCTTTCTGCTATCCATATTGATCGCCTGGA
CTGTGCAGTATTTCCAGTCTGTCTCAGCAAGCGATCCCCCTCCAAGACCATCCCAGGCCTCCCCAGACACTGCCA
CGTCCACTGCAAGTCCAGCTGTGACTCCAGCTGCAGATGCCCTTGACCAAGACCAGCCACAGTAACATAATAACC
CGGAGCCACGTGGGTTGAAGTGTGCACTCCAGTTCTCTCCAGATGAGAGAGAATCTTTTCAACAGCTGGTATTGGG
AAGCTGGGGCCAGGGCATGATCCTGATAAACACCTTAAATGTCTTGTCAACTGGATGCAAATTTTGCAATTGGTG
TCATTTTTTTTAAAGTCAAATTACAAGGAAGTACCCAGATCAGGCAGTGGTAATACCAAGGTTCATCAAACACAT
ACAAGGAACATCTTGATCATAGGGCATGTGGGAAGTTTACTGGGCCATCACAGACTTTTGTCTAGTGATTGTA
TGTATTAGGAGTCATAGCATGCCCTACGGCAGATCTGGATTCTTATACACTAAGATGTGTCTTAAGAATCACAGT
GCGTGCTTCATCCCTTTATTGAAGAACAGAAAATTATGACTACTCTACAAGGTGGATAATATTTTGGTACCTGTG
CTTGCCACAGCCCTGTTCTCAAAGCTGAATTGATAGATTTCTCTTTGACTTCCAAGACCTAGCAGTTATAAGGC

[illegible]

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FIGURE 1686

LCSQPCVVNLEAVVSSEFRSSIPVYKKRWKNEKHLHTSRTQIVHVKFPSIMVYRDDYFIRHSISVSAVIVRAWIT
HKYSGRDWNVKEENLLHAVAKNYTLLQTIPPFERPFKDHQVCLEWNMGYIWNLRANRIPQCPLENDVVALLGFP
YASSGENTGIVKKFPRFRNRELEATRRQMDYPVFTVSLWLYLLHYCKANLCGILYFVDSNEMYGTPSVFLTEEG
YLHIQMHLVKGEDLAVKTKFIIPLKEWFRLDISFNGGQIVVTTSIGQDLKSYHNQTISFREDFHYNDTAGYFIIG
GSRYVAGIEGFFGPLKYYRLRSLHPAQIFNPLLEKQLAEQIKLYYERCAEVQEIVSVYASAAKHGGERQEACHLH
NSYLDLQRRYGRPSMCRAFPWEKELKDKHPSLFQALLEMDLLTVPRNQNESVSEIGGKIFEKAVKRLSSIDGLHQ
ISSIVPFLTDSSCCGYHKASYLLAVFYETGLNVPRDQLQGMLYSLVGGQGSERLSSMNLGYKHYQGIDNYPLDWE
LSYAYYSNIATKTPLDQHTLQGDQAYVETIRLKDDEILKVQTKEDGDVFMWLKHEATRGNAAAQORLAQMLFWGQ
QGVAKNPEAAIEWYAKGALETEDPALIYDYAIVLFKGQGVKKNRRLALELMKKAASKGLHQAVNGLGWYYHKFKK
NYAKAAKYWLKAEEMGNPDASYNLGVHLHDGIFPGVPGRNQTLAGEYFHKAAQGGHMEGTLWCSLYYITGNLETF
PRDPEKAVVWAKHVAEKNLYLGHVIRKGLNAYLEGSWHEALLYVLAETGIEVSQTNLAHICEERPD LARRYLG
VNCVWRYYNFSVFQIDAPSFAYLKMGDLYYYGHQNSQDLELSVQMYAQAALDGDSQGFFNLALLIEEGTIIPH
ILD FLEIDSTLHSNNISILQELYERCWSHSNEESFSPCSLAWLYLHLRLLWGAILHSALIYFLGTFLLSILIAWT
VQYFQSVSASDPPPRPSQASPD TATSTASPAVTPAADASDQDQPTVTNNPEPRG

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FIGURE 1687

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGGCTCCCAGCCTGC
CGGGTCGCGATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGTCTCAG
AGCAACCGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCCAGTGCCATCAATGGC
AACCCTATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCCG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCACGAGTTTGAAGTGCAGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTCGCATTGTGGCCTTTTTCTCCTTCGGCGGGGCACTGTGCGTGGA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCCCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAAATGACACAGACACTGACCATCCACTCTACCCTCCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCCTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAAGTTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCCTTTCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTACTAGGGATTTCAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAAGTTCAGCACCACCTAGTCCC
TTCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGG
GGACTCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCCCTGCCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCTTGTGAAGATGATATACTATTTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGGAGATTGGACGGCCTGATGCTCC
CTCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1688

MSQSNRELVDFLSYKLSQKGYWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHLEPWIQENGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

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FIGURE 1689A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCTATGCCG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCTCCCCCTCCGGCGGGCGGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCCGTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTTCGACGAGCTG
TGCAGCCGCCTCAACATGGACGAGGCGGGCGGGCCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAAGCTAC
ACGCTGGAGGGAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAGAAAATCTGTTCCAAGTGT
AGCAAAGGGACAGTGAAGGAAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCAGTGTCTGCTGTAATTTTTAAGAAAATATGAACCCATTTTTTCAGGACATCTTTAAATACCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGGCGACAGCCCTGTACTGTGTCTGAAATTTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCCATGATTAGTGATGATTTGGTCAATTTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTATGGAAATGCACTTCAGTGTCTAATCGTAAAGAACTTGTGAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCCTCTGACCCCCCTTGTATCATTGAG
AAACTGTGTTTCCTTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAAACCTATATT
AGGAAACTTTATGAAAAAAGCTCCTTAAGGGAAAAAGAAAATCTCACTGGGTTTCTAGAACCTGGGAACTTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGAGAGGATGCTGAGGAGGAAATTGGGACTCTCTCAAGGTGTCTGAACGCTGGTTCAGGAACAGAGACT
GCTGAAAGGGTGCAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTTAGGTACATTAAGGAGAATAGCCCTTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTCACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTTGAAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTCTTGCCCTGCTGCCTTGAGGTGCTCATTTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTTGATGTGCCTCTTTATCATTTTTATAAGGTGATAGAAGTATTCTATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGTCATGGAAACCAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAAACAGAGTTCCCTACATGTGAAGAGGTGATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCCCTTGACTCCCAGAAGGGTGACTGAAGTTCTGTGCTGAT
ACTGGAGGACTTGGAAGGAGCATAACATCTCAACCCACATTATACGATAGGTACAGCTCCCCACCCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGCAGAAATGTATCTGGGGAGACTGTTTCTGTACACCAGTTCTTGACAGACTTTG
GTCACCATGGCAACCGCCACTGTACAGCCAACAATGGGCAAACGGTAACCATTCTGTGCAAGGTATTGCCAAT
GAAAATGGAGGGATAACATTCTTCCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCCCTCAGTGCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCTTCGG
GATCTCTGTGCCAACTAGATATTTAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGTCTTGAACTTATGATGGACAGACATCTGGACCAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCCTTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGCGAGGCCCGGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAGGGAAAAGAAAAAGAAATTTCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCCTCACAGGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTGAGTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAAATGAAACAATGCTTTCTCCTCGAGAAAAGATTTTCTATTACTTC
AGCAACAGTCCCTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
GGAATTCCTTTGGAAGATGGAAGTGAATCACCTGCAAAAAGAAATTTGCCAGAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACTTGAGGGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTTAATGCATCTAGATTATGGAGCTTTTTTCCTTAATCCAGCTGATGAGTTACAGCCTGTTA

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FIGURE 1689B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAACTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCCTCATAAAAAGCAAAACA
AAAATTAGGTATTTTGTCTTAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCTTTGTGCACATCTTCCCTCTCCCCATTGGG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAAATGCATGATTTTGTAAACCAGATTTTGTCTGTATATTTGTGATAGCACTTCTTACAATGTGAAC
TTTATTAAATACAAAACCTTCCAGGCTAAACATCCAATATTTTCTTTAATGCTTTTATATTTTTTTAAAATGTTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCTCCAGTTTTTTGTTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTTATGACCTCTTCCTTTAGGAGGGAGTTATCT
AAAAGAAATGTCTATTAAGGTGATATATTTAAAAATATTTTTGGGTGTTCTTGGCAGTTTAAAAAAATTGGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAAGTTACTAGGTAACCTCATATTGCTGAGAGAAATATGGAACCTTACATT
GTTCAATTAGAATAGTGTCTCCCCAAATATTTATAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTTCAATAAAGCATTTATAAATTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1690

MPSSGGDQSPFPPPPPPPPAAAASDEEEEDDGEAEDAAPSAESPTPQIQQRFDLCSRLNMDEAARPEAWDSYRSMSE
SYTLEGNDLHLWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLP PHFRERTE
RLERNFTVSAVIFKKYEPIFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLFYIYAKGNFPMISDDL VNS
YHLLLCALDLVYGNALQCSNRKELVNP NF KGLSEDFHAKDSKPSSDPPCIIEKLCSLHDGLVLEAKGIKEHFWKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAEEEEIGTLSRCLNAGSGT
ETAERVQMKNILQQHFDKSKALRISTPLTGVRYIKENSPCVTPVSTATHSLSR LHMTLTGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQHFPDEDFSNCAKEIASKHFRFAEMLYYKVLESVIEQEQKRLGDMDSL GILEQ
DAFHRSLLACCLEVVTFSYKPPGNFPFITEIFDVPLYHFYKVIEWFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEICIASGPLTPRRVTEVRADTGGLGRSITSPTTLYDRYSSPPA
STTRRRLFVENDSPSDGGTPGRMPPQPLVNAVVPQNVSGETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGSIQPLSAQALAGSLSSQQVTGTTLQVPGQVAIQQISPGGQQQKQGQSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDEL RKKIWTCTFEFSIIQCP ELMMDRHLDQLLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLIKGRKRNRNSGSSDSRSHQNSPTELNKDRTSRDSSPVMRSSSTL
PVPQPSSAPPTPTRLTGANS DMEEEEERGDLIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL
SQNHVPYISPHKNETMLSPREKIFYYSNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRRLQDVANDRGSH

TGGGCAATTAACCAAGCCCATAGCCCAATGAATATGAAGTCCGGAGAAAGCTGCTAATAAAACGTTTGGATGTCACT
GTACAATCCTTTGGCTGGTCTGACAGAGCTAAGAGCCAGACAGAAAAATTAGCCAAGGTTTACCAGCCGAAACGT
TCAGTCTTATCCCCTAAAACTACTATTTCTGTTGCCCATCTTTTGGCTGCAAGGCAGGACTTGTCAAAGATTTTA
AGGACAAGCAGCGGCTCTATAAGAGAAAAAGACTGCCTGTGCCATCAATAAGGTGTTGATGGGCAGGGTGCCTGAC
AGAGGTGGTAGACCCAATGAAATCGAACCTCCACCCCCAGAGATGCCACCGTGGCAGAAGAGGCAAGATGGCCCC
CAGCAGCAAACAGGAGGCCGAGTAGGAGGGGAGAGGTGGCTATGAACATTCTCATACGGAGGACGAGGAGGTCAT
GAACAAGGAGGCGGGAGAGGTGGACGTGGTGGCTATGACCATGGTGGCCGAGGGGGAGGAAGAGGAAATAAGCAT
CAAGGAGGCTGGACAGATGGAGGGAGTGGTGGAGGAGGTGGCTACCAAGATGGTGGTTATCGAGATTCAGGTTTC
CAGCCAGGTGGCTATCATGGTGGCCACAGCAGTGGTGGCTATCAAGGCGGAGGTTATGGTGGCTTCCAAACATCT
TCTTCATATACAGGAAGTGGATACCAGGGTGGTGGCTACCAGCAGGACAATAGATACCAAGATGGCGGGCACCAT
GGTGATCGTGGTGGTGGTGGTGGTGGGCGAGGTGGTGGTGGAGGCCGAGGTGGTGGTGGTGGCAGGCCAGGGAGGAGGC
TGGGGAGGAAGAGGGAGCCAGAATTATCACCAAGGGGGTCAATTTGAACAGCATTTCAGCATGGAGGTTATCAG
TATAATCATTCTGGATTTGGACAGGGGAAGACATTACACTAGTTGAGGCTACCGAACTTTACATTTTGCTAGAGCT
CAAGTAATAGAAACTTAGTTTTCAGAATCCTGAATTCAGCACCTATTTTGAATTAATGTGAGACCACAGGTGGCAG
CGAGATTCTCTGCTTGGCATAAGCATTGTAGGTCTTCATTCAATTCTGTTAGATTTTTTTTATTGGACTTACATAA
TGCCGTTTTATTTGAGAAAACACATAACATCTCTCCTTCCTATGAAAAATTTTTTAAAAGGTGGTTAAAATTGCCTT
TAATTGCCCAGTAGACTAATTCCACAGTCAGAACATGCAAACTTTTTTGAAGAAATTACTTGAATAAGTAGTTTT
CATGTTTTCAATATGCAGTTTTGAAAAATGAGGATTCACCTAGACTTTTTTTAGATTTACTACTAGGAAACCTTCTCT
CATATGAATAACCATTTATATGTGTTTTGCTTAAAGTATTCCAATGCCTATTTTCCAAGCACAGTTCTGCCCCCC
GGTTGACTTTTTATGCCACGTGTGCTTCATGATGGAACTTTTAGGTCAGTTCCTATTAAATGAGCTCTTCTGCAGA
TAGCACATTTCAGTAGCCTTATTTTGTGATGGAATACTGTATCATATGCTCAACTCTGAAAACCTTGAACACGGC
CAAAATCCATAAAGATTATAAAAAGCAAACTAAGTTGTGAAGCTATAGTACATGTAGGCATT'TAGTTAAGTATAGC
AATTCAAACCTGACCTGCATCCATCCAAAACAAATTCCTCCTTCAACCTTATTTTTTACTTGAATTTTGCTAGAAGA
AATAGCAAACCGAAATTTGTTTTATGCATGAGTTAATACCACTGGCTCAGCAAATACAAGTTAGTTTGCTTTAAG
CAGGTAACCTTTTTTTTGTAAATGGAAGAAATGCACTACAAAAGTTAAGACAGATTTTTTGCTAAGTGCAGGAGGCCCTT
TATTATTGCTGCAGAAAAACAAAAGCCTGGCTGAGTTGATGTTTTACATTCTCCCTTACTGAAATCTACATGACAT
GATGCTTCTTGCTGGGTTTTTTGTACATGTAAACATTGTCAAGCTGTGAAAGAAAATGGCTGGAGGTGTGCTTTGT
GTGAAAGGTGAGCAATAAAGTATCTGTTAAGTTCAAAAA

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FIGURE 1692

WAINQAIANEYEVERRKLLIKRLDVTVQSFQWSDRAKSQTEKLAKVYQPKRSVLSPKTTISVAHLLAARQDLSKIL
RTSSGSIREKTACAINKVLGRVDPDRGGRPNIEPPPPPEMPPWQKRQDGPQQQTGGRVGGRGGEYHSSYGGRGGH
EQGGGRGGRGGYDHGGRGGGRGNKHQGGWTDGGSGGGGGYQDGGYRDSGFQPGGYHGGHSSGGYQGGGYGGFQTS
SSYTGSYQGGGYQDNRYQDGGHHGDRGGGRGGRGGRGGRGGRAGQGGGWGGRGSQNYHQGGQFEQHFQHGGEYQ
YNHSGFGQGRHYTS

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FIGURE 1693A

AAACCCCTGTTCTTGGGTGGGTGTGGGTATAATACTAAGTTGAGATGATATCATTTACGGGGGAAGGCGCTTTGTG
AAGTAGGCCCTTATTTCTCTTGTCTTTTCGTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCC
GGTCTGAACCTCAGATCAGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCGGCTGCACCATTGGGATG
TCCTGATCCAACATCGAGGTCGTAAACCCCTATTGTTGATATGGACTCTAGAATAGGATTGCGCTGTTATCCCTAG
GGTAACCTTGTTCGGTTGGTCAAGTTATTGGATCAATTGAGTATAGTAGTTCGCTCTGACTGGTGAAGTCTTAGCA
TGTACTGCTCGGAGGTTGGGTTCTGCTCCGAGGTCGCCCCAACCGAAATTTTTAATXCAGGTTTGGTAGTTTAGG
GCCTGTGGGTTTGTAGGTACTGTTTGCATTAATAAATTAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCAT
GCCCCCTCTTCACGGGCAGGTCAATTTCACTGGTTAAAAGTAAGAGACAGCTGTACCCTCGTGGAGCCATTTCAT
ACAGGTCCCTAGTTAAGGAACAAGTGATTATGCTACCTTTGCACGGTTAGGGTACCGCGGGCCGTTAAACATGTGT
CACTGGGCAGGCGGTGCCCTAATACTGGTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGGTAAAGATTTG
CCGAGTTCCCTTTTACTTTTTTTAACTTTCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAATGA
CTTGTGTTGGTTGATTGTAGATAXTGGGCTGTAAATTGTCAGTTCAGTGTTTTAATCTGACGCAGGCTTATGCGGAG
GAGXATGTTTTCAIGTTACTTATACTAACATTAGTTCCTTATAGGGTGATAGATTGGTCCAATTGGGTGTGAGG
AGTTCAGTTATATGTTTGGGATTTTTTAGGTAGTGGGTGTTGAGCTTGAACGCTTTCTTAATTGGTGGCTGCTTT
TAGGCCCTACTATGGGTGTTAAATTTTTTACTCTCTCTACAAGGTTTTTCTAGTGTCCAAAGAGCTGTTCTCT
TTGGACTAATAGTTAAATTTACAAGGGGATTTAGAGGGTCTGTGGGCAAATTTAAAGTTGAACCTAAGATTCAT
CTTGGAACAACCAGCTATCACCAGGCTCGGTAGGTTTGTGCGCTCTACCTATAAATCTTCCCACTATTTTGCTAAA
AGAGCACACCCGCTCTATGTACGGAATTCGGGGAAGAACTTAAGCGACAATCTTGAACACCCCTTCTCATGTGATG
TGAAATGAAACCATTTGAAAAGTTTCTTCTAGCCAGTAATAGATTTTTTXXITTAATTGCTCTGCCCTTGTGCCGA
GAGATGTTCTTTTAAGATGAATCTTTTGATGTCTGATACCACCAAATATAGGTGGTAGGGAGAGTTGGAGGCTGG
CCCTTTGAGCAGGCCATTAGCTTACTTGCTGGGCATTTCCGATAGCTTATTGCCTACCCCTTTTGTGGAACAAG
CTGATTTGAAAAACCAAATCTATGXAGACTGCAGCTAAGGATTTTATCGGTAGACXTAAGAGCTTTTGTCTTGT
GGATATTTTAGTGGAACCACATCAGTCTCAATACTGTCATTTTACACTGACTCAGAGCAGCTGACTTCATTCCTT
GCCACGATATATTTAAGGCAGGCATTGTAACAGACATAAAGACAACCTTATCTGTTTCAGCAGGAAGGATTCAG
TTTATGAACCTCTCAGACCAGATCATGTTGAACAAGGAGACTTTGATGTGTGTCATGAGGAACTCATTCTTTACT
TCCCAGTCAATTTAAAGGCCAGCTATCCTGAGCTACTCGAATGAATGCACTGGTTAAACATTGGAATAGTTTGT
TTATATCCTTGTCTCTCTTAGGCCAATTGTGATTACATGACTCGACTCTACATCTCGTCAAACAAGGCCCTAGGT
CTGGTTGCTGTAGACTGCTCGCCCTCAACAAATAAAATCTGGTTGACTAGCCTCCTTGTATATACAACTATTATT
TGTTAAGAAGAAATTATCGTCAATTTTCTACTACCTTCCAATTGTCAGCTCTTTTTTCTCTCTGGTTTTTCT
ACACTTTACAGAAAAAGACATTGATCTATACTGCCATTCCCTCTAATCCTGCCATACTCAGTCAAAAAGGAATGAC
TTAAGATGAAGATGATCATCTGCTCGAGTCAAAATATACATTGTATATAAGAATTGGTGATTAGAAAAGCAAAAA
ACCTAAACTTAAATCTAGGAGTCTGTATACTGTCTCCATGTCTCCATGCCTCAGATCTCATCTAAATCTTTGAA
CAGCACCATTCACCAATCTGAGGCCTTGACTTGCTTGTAAGATGATTCTCAGAGATCGGCTGAGTTAAAAAAGA
TGACGACTTGATTACCAAGAAAGTAGGGCCAACCTTGACAAATCTGGCTCTGCTGACCCTGTCACTCCCAGATG
TAGCATAGACTCCTAAACAGAACCTCAAGTCTGATTGAGGATAAGGCCTTCTCCTGAGCTGAAAGTTCTTTGGCA
GATGAGCAAGAACTGAAAGCTGATGTACCTGACTGGCTCTGTAAGATCAGAAAACCTGTATCCAGAATAAGCCCT
ATGGATTAACCCCTGAGTACCCAGAGTAAAAACTAATTTACAGAACTTCCTTATTGATCTGCTGGTTCTTCCAGA
TCATATTCTGGCTATTGGTATGGCTGGCCTTTCTGAAGGTACCCTGCTTGTCTATTTTCTGACTCAGCTCTTGC
CTGCCTTTTTTCACATGTTGCTGCAATTAGACTCACCGTGAGGACTACAGTCAATTTCACTCTATCTTGTGCCAA
TACAACAAGGATTTTTAATAGTAACAACCCACACCTCACCCACTAGGACTCAATGTTTACAACAGGAAGGACCAT
TGCTGCATACTCCTTGACCAGCAACTTTTTTGAAGATATTTTAAAGTGCAGAGTAGGCCTCTATTCTGTATGTA
ATTGTTCAATTTTCAAGCCTGGAACCTCATCTATCGGGTCTGGAAGGAATACAGCAGTTGAAAGCCGCGTCCAT
TTCTCTCCTTCAGTAGTGCAGAAATGAGTCCGATTACCAGTACACACAGAAGTGTACCAGTTCAACCTAGCAAA
AGAAGAAAAGTTTCCACTGTACTTAAATTTACAGCTGACTCAAATTGCCTCACAGAATTACTTGATGTAGAAGG
CTAGTCGTCTTACTTCGGATCAGCAGGACAGTTGGGCTCTCAGACTCATGACCACTGAGTTTGTCTGTGTTGAAA
CTGTGGTTTCATCCAACATATGCTATTGGACATGATTATTATTCATTCAAATGGATTACAGACTTCTTGAGGAC
AGGACAAACTTATCTCTCATGGTGTTTTTTTAGAATACTTTTATAACCAAGGAAGAAACCATGCCAGCTGTTACC
ATTCAACTTCTTAAGCAGAGATTAAGCTTTTTTCATATCTGTTCTTATCCTGGACATCAGTAGTTTTTAATTGCC

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FIGURE 1693B

AGCATCCGTTCCATCTTGTAACAACTCCCTGATGTTTCTTAAAACACCTCTTCCTATTTTCAGTCTGTGGTTTG
GACAGTCTGACCCAACCTTGAGCTTTGTGGGTGAACATGTAATTCAGACCTCATCAATCAGCAAATCCATCTGAA
CTGTGGAGGAGAAGCTCTCTTTACTGAGGGTGCTTTAGCTTTGTAGGATGAAAACCTCAAACCTAACAGGGCCTAC
CATGTAGAGAATGAAGCCAGTGCAGGGGAAAGCAGAGCCAAAATATGGAGAGACTTGAATCCTGATGACAGCGTT
TGTGCCCCCTGG

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FIGURE 1694

GACCCGGGAGAAGGAGGGCCAAGATGGCGGAAGCGGAGGAGTCTCCAGGAGACCCGGGGACAGCATCGCCCAGGC
CCCTGTTTGCAGGCCTTTCAGATATATCCATCTCACAAGACATCCCCGTAGAAGGAGAAATCACCATTCCCTATGA
GATCTCGCATCCGGGAGTTTGACAGCTCCACATTAAATGAATCTGTTTCGCAATACCATCATGCGTGATCTAAAAG
CTGTTGGGAAAAAATTCATGCATGTTTTGTACCCAAGGAAAAGTAATACTCTTTTGAGAGATTGGGATTTGTGGG
GCCCTTTGATCCTTTGTGTGACACTCGCATTAAATGCTGCAAAGAGACTCTGCAGATAGTGAAAAAGATGGAGGGC
CCCAATTTGCAGAGGTGTTTGTTCATTGTCTGGTTTGGTGCAGTTACCATCACCTCAACTCAAACTTCTTGAG
GGAACATATCTTTTTTTTCAGAGCCTCTGTGTGCTGGGTACTGTATACTTCCCTTGACAGTAGCAATGCTGATTT
GCCGGCTGGTACTTTTGGCTGATCCAGGACCTGTAACTTCATGGTTCGGCTTTTTGTGGTGATTGTGATGTTG
CCTGGTCTATAGTTGCCTCCACAGCTCTCCTTGCTGATAGCCAGCCTCCAAACCGCAGAGCCCTAGCTGTTTATC
CTGTTTTCCCTGTTTTACTTTGTTCATCAGTTGGATGATTCTCACCTTTACTCCTCAGTAAATCAGGAATGGGAAAT
TAAAAACCAGTGAATTGAAAGCACATCTGAAAGATGCAATTCACCATGGAGCTTTGTCTCTGGCCCTTATTTGTC
TAATTTTGGAGGTATTTGATAACTGAGTAGGTGAGGAGATTAAAAGGGAGCCATATAGCACTGTCACCCCTTATT
TGAGGAACTGATGTTTGAAAGGCTGTTCTTTTCTCTCTTAATGTCATTTCTTTAAAAATACATGTGCATACTACA
CACAGTATATAATGCCTCCTTAAGGCATGATGGAGTCACCGTGGTCCATTGAGGTGACAACCAGTGACTTGGGAA
GCACATAGATACATCTTACAAGTTGAATAGAGTTGATAACTATTTTCAGTTTTGAGAATACCAGTTCAGGTGCAG
CTCTTAAACACATTGCCTTATGACTATTAGAATATGCCTCTCTTTTCATAAATAAAAATACATGGTCTAAAAAAA
AAAAAAAAA

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FIGURE 1695

MAEAEESPGDPGTASPRPLFAGLSDISISQDIPVEGEITIPMRSRIREFDSSTLNESVRNTIMRDLKAVGKKFMH
VLYPRKSNITLLRDWDLWGPLILCVTLALMLQRDSADSEKDGGPQFAEVFVIVWFGAVTITLNSKLLGGNISFFQS
LCVLGYCILPLTVAMLICRLVLLADPGPVNFMVRLFVVIVMFAWSIVASTALLADSQPPNRRALAVYPVFLFYFV
ISWMILTFTPQ

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FIGURE 1696

CGCCGAGGTATCACCTGGCACCACCCGCACCCTCACCCCGTGTCTCCATGCCCTGCCTCTGCTCCCCACACCCCT
CACCTCAAGCTGTCCCCCTCACCTCACGCTTGGCTGTCTCCTGATCCTCAGCCTCTCCCAGGTACCCAGACTCTG
TAGGAGAGTGCCCGAGGGCGGAGGGCCAGCC**ATG**CTGACCTTCCTTCCCTCCCCCAGGAGCTGTTACCCGCTC
ACTGGCTGAGAGCGAGCTCCGTAGTGCCCCGTATGAGTTCCCCGAGGAGAGCCCCATTGAACAGCTGGAGGAGCG
GCGGCAGCGGCTGGAGCGGCAGATCAGCCAGGATGTCAAGCTGGAGCCAGACATCCTGCTTCGGGCCAAGCAAGA
TTTCCTGAAGACGGACAGTGACTCGGACCTACAGCTCTACAAGGAACAGGGTGAGGGGCAGGGTGACGGGAGCCT
GCGGGAGCGTGATGTGCTGGAACGGGAGTTTCAGCGGGTCACCATCTCTGCGGAGGAGAAGTGTGGGGTGCCGTT
CACAGACCTGCTGGATGCAGCCAAGAGTGTGGTGCGGGCGCTCTTCATCCGGGAGAAGTACATGGCCCTGTCCCT
GCAGAGCTTCTGCCCCACCACCCGCCGCTACCTGCAGCAGCTGGCTGAAAAGCCTCTGGAGACCCGGACCTATGA
ACAGGGCCCCGACACCCCTGTGTCTGCTGATGCCCCGGTGACCCCCCTGCGCTGGAGCAGCACCCGTATGAGCA
CTGTGAGCCAAGCACCATGCCCTGGGGACCTGGGCTTGGGTCTGCGCATGGTGCGGGGTGTGGTGACGTCTACAC
CCGCAGGGAACCCGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCTGACCTGCAGGAATTTGTGGCTGACGT
CAATGTGCTGATGGCCCTGATTATCAATGGCCCCATAAAGTCATTCTGCTACCGCCGGCTGCAGTACCTGAGCTC
CAAGTTCCAGATGCATGTGCTACTCAATGAGATGAAGGAGCTGGCCGCCCAGAAGAAAGTGCCACACCGAGATTT
CTACAACATCCGCAAGGTGGACACCCACATCCATGCCTCGTCTGCATGAACCAGAAGCATCTGCTGCGCTTCAT
CAAGCGGGCAATGAAGCGGCACCTGGAGGAGATCGTGACGTGGAGCAGGGCCGTGAACAGACGCTGCGGGAGGT
CTTTGAGAGCATGAATCTCACGGCTACGACCTGAGTGTGGACACGCTGGATGTGCATGCGGACAGGAACACTTT
CCATCGCTTTGACAAGTTTAATGCCAAATACAACCCTATTGGGGAGTCCGTCCTCCGAGAGATCTTCATCAAGAC
GGACAACAGGGTATCTGGGAAGTACTTTGCTCACATCATCAAGGAGGTGATGTGACACCTGGAGGAGAGCAAATA
CCAGAATGCAGAGCTGCGGCTCTCCATTTACGGGCGCTCGAGGGATGAGTGGGACAAGCTGGCGCGCTGGGCCGT
CATGCACCGCGTGCACTCCCCAACGTGCGCTGGCTGGTGACAGGTGCCCCGCCTCTTTGATGTGTACCGTACCAA
GGGCCAGCTGGCCAACCTCCAGGAGATGCTGGAGAACATCTTCCTGCCACTGTTGAGGGCCACTGTGCACCCCTGC
CAGCCACCCGGAACCTGCATCTCTTCTTAGAGCACGTGGATGGTTTTGACAGCGTGGATGATGAGTCCAAGCCTGA
AAACCATGTCTTCAACCTGGAGAGCCCCCTGCCTGAGGCGTGGGTGGAGGAGACAACCCACCCTATGCCTACTA
CCTGTACTACACCTTTGCCAACATGGCCATGTTGAACACCTGCGCAGGCAGAGGGGCTTCCACACGTTTGTGCT
GAGGCCACACTGTGGGGAGGCTGGGGCCATCCACCACCTGGTGTCAGCCTTCATGCTGGCTGAGAACATTTCCCA
CGGGCTCCTTCTGCGCAAGGCCCCCGTCTGCAGTACCTGTACTACCTGGCCAGATCGGCATCGCCATGTCTCC
GCTCAGCAACAACAGCCTCTTCCTCAGCTATCACCGGAATCCGCTACCGGAGTACCTGTCCCGCGGCCTCATGGT
CTCCCTGTCCACTGATGATCCCTTGCACTTCCACTTCACCAAGGAGCCGCTGATGGAGGAGTACAGCATCGCCAC
CCAGGTGTGGAAGCTCAGCTCCTGCGATATGTGTGAGCTGGCCCGCAACAGCGTGCTCATGAGCGGCTTCTCGCA
CAAGGTAAAGAGCCACTGGCTGGGACCCAACTATACCAAGGAAGGCCCTGAGGGGAATGACATCCGCCGGACCAA
TGTGCCAGACATCCGCGTGGGCTACCGCTACGAGACCCTGTGCCAGGAGCTGGCGCTCATCACGCAGGCAGTCCA
GAGTGAGATGCTGGAGACCATTCCAGAGGAGGCGGGTATCACCATGAGCCCAGGGCCTCAAT**TG**AGCCTGGTCCAT
GAAGTGCCCAACCATCGCAGCACTTTTACCACGTTTTGTCTCAGACCCCGCCATGCTGTGTGGTCTCTGCAT
GTCTCCATTCTTCTGTCTCTGTCTTGTCATGTCTCTACCATGTCACTGTCCCTGGGCCACCCAGTGAAAGCAA
AGCCTGGGAATCTGCTCATTGTTGTTTGGGCTCAGGTATTGAGCCTGATGGCCCAGGTATTGAGGGCCTCCCCTG
CTGGTGGCCCTGTCTGGGATCCTCAGAAGCCTGACTGTCTATGGGCTTCTCCAGTGTCCACAGGGGCTTGGGA
TGTTTGTGGGGGGCTGGCCCCCTTAGCCTTTCCGGTCTTCTGGGCAAATCTAAGCCTTGGCCAGGGCGAAGTT
TAGGCCCCCTGTCTTGTTCATGTAGCCGAGGGGCAGGCGGGGGACCTCTACACCTCTGCTGTGGGCACGGGGCTGC
TGAGGGTCTGTGGAACCTCAGCAGCTCTGCACTGGGTAGAGCTGGGCCCTAGAGCTCAGTCACAGGCCTGGGCTTC
CTGGCCTGAGTGGGTAGACGCAGGCGGCAGAGGTGCTGGACCACATCTCCGCCAAGTCACTGCCAGCAGCCTTC
TCCGTCTGTCCCCAGCCACGTGCTCCTTGGGTGTCAGCTTCCTGTGCCTCTGTGGGAGAGGCAGCTGCCTTGT
GTTATGTCTGGGGCCACAGTTGCTGCAAAGTCCTGGATCTGCCACTCAACCCGGGAGTGGTGTTCACAGTGTGG
CTCCAGAGCTTTGACCAGATTGTGATCCAGCTGGCCCCATGTTGTGTTCTGGACTGAGGCCTTTGCTGTGAA
CTGCAGTGTTCATACGAACCATCTTTCCTAGTGCATGAGAAATAAAGATTATTTAAGT

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FIGURE 1697

MLTFLPSPQELFTRSLAESELRSAPYEFPEESPIEQLEERRQRLERQISQDVKLEPDILLRAKQDFLKTDSDDL
QLYKEQGEGQGQDGLRERDVLEREFQRVTIISGEEKCGVPFTDLLDAKSVVRALFIREKYMALSLQSFCTTTRY
LQQLAEKPLETRTYEQGPDTPVSADAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVRGVVHVYTRREPDEHCSE
VELPYPDLEFVADVNVLMALIINGPIKSFCYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHI
HASSCMNQKHLRLFIKRAMKRHLEEIVHVEQGREGTLREVFESMNLTAIDLSVDTLDVHADRNTHFRFDKFNKY
NPIGESVLREIFIKTDNRVSGKYFAHIIKEVMSDLEESKYQNAELRLSIYGRSRDEWDKLARWAVMHRVHSPNVR
WLVQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPELHLFLEHVDGFDSDVDESKPENHVFNLESPL
PEAWVEEDNPPYAYYLYYTFANMAMLNHLRRQRGFHTFVLRPHCGEAGPIHHLVSFAMLAENISHGLLLRKAPVL
QYLYYLAQIGIAMSPSLNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEYSIATQVWKLSSCDM
CELARNSVLMMSGFCHKVKSHWLGPNTKEGPEGNDIRRTNVPDIRVGYRYETLCQELALITQAVQSEMLETIPEE
AGITMSPGPQ

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FIGURE 1698A

ATGGAGGGCCTGGCTGGCTATGTATACAAGGCGGCCAGCGAGGGCAAGGTGCTGACTCTGGCCGCCTTGCTTCTC
AACCGGTCTGAAAGCGACATCCGCTATCTGCTTGGCTATGTCAGCCAGCAGGGAGGGCAGCGCTCCACGCCCCCTC
ATCATCGCAGCCCCGAATGGACACGCAAAGGTGGTACGCTTGCTCTTAGAACATTACCGGGTGCAGACTCAGCAG
ACTGGCACCGTCCGCTTCGACGGGTATGTCATTGATGGTGCCACTGCTCTTTGGTGTGCAGCTGGAGCAGGACAT
TTTGAAGTTGTTAACTTCTAGTCAGCCATGGAGCCAACGTGAACCATACCACAGTAACATAATTCAACCCCCCTG
CGGGCAGCATGCTTTGATGGCAGACTGGACATTGTGAAATACTTGGTTGAAAATAATGCCAACATCAGCATTGCC
AACAAATATGACAACACCTGCCTAATGATTGCGGCATATAAGGGACACACTGATGTGGTCAGATACCTTTTAGAA
CAACGTGCTGATCCCAATGCCAAAGCACATTGTGGAGCCACAGCATTGCACCTTTCAGCTGAAGCTGGGCACATA
GATATTGTGAAAGAGCTGATAAAATGGCGTGCTGCTATAGTAGTGAATGGCCATGGGATGACGCCATTGAAAGTA
GCTGCCGAAAGCTGTAAAGCTGATGTCGTAGAACTGTTACTCTCTCATGCTGATTGCGACCGAAGAAGTCGGATT
GAAGCTTTGGAACTCTTGGGTGCCTCCTTTGCAAATGACCGTGAGAACTATGACATCATAAAGACATACCACTAT
CTATATTTAGCCATGTTAGAGAGGTTCCAAGATGGTGATAACATTCTCGAAAAAGAGGTTCTTCCACCAATCCAT
GCTTATGGGAATAGAACTGAATGTAGAAATCCTCAGGAACTGGAGTCCATTTCGGCAAGACAGAGATGCTCTTCAT
ATGGAAGGCCTTATAGTTCGGGAACGGATTTTAGGTGCTGACAATATTGATGTTTCTCATCCCATCATTTACAGA
GGAGCTGTTTATGCGGATAATATGGAATTTGAGCAGTGTATCAAGTTGTGGCTTCATGCCCTGCACCTCAGACAA
AAAGGTAACAGGAACACCCACAAGGATCTTCTTCGATTTGCTCAAGTTTTCTCACAATGATACATTTGAATGAA
ACTGTGAAGGCCCCAGACATAGAATGTGTTTTGAGATGCAGTGTTTTGGAAATAGAACAAAGTATGAACAGAGTG
AAAAATATTTAGATGCTGATGTCCACAATGCTATGGACAATTATGAATGTAATCTCTATACCTTTCTGTATTTA
GTGTGCATCTCTACCAAAACACAGTGCAGCGAAGAAGATCAGTGCAAAATTAACAAGCAGATCTACAACCTGATT
CACCTTGATCCCAGAACTCGTGAAGGTTTACCTTGCTGCATCTGGCTGTCAACTCCAATACTCCAGTTGATGAT
TTCCACACCAATGACGCTCTGCAGCTTTCCAAATGCACCTTGTCACAAAGCTCCTGCTGGACTGTGGTGCTGAGGTG
AATGCCGTGGACAATGAGGGAAACAGTGCCCTTCATATTATCGTTTCAGTACAACAGGCCCATCAGTGATTTTTTG
ACCTTGCACTCCATCATCATTAGCCTAGTTGAAGCCGGAGCTCACACTGACATGACGAATAAACAGAATAAGACT
CCGCTAGACAAAAGTACAACCTGGGGTATCTGAAATACTGCTTAAACTCAAATGAAGATGAGTCTCAAGTGCCTG
GCTGCCCCGAGCAGTTCGGGCTAATGACATTAACACCAAGACCAGATCCCCAGAACTCTTGAAGAGTTTGTGGA
TTTCATTAAGTGACTGGATATGTAAAGTCGTTTAAATGTGGTGCTAAAAAGTAAAGGACTTTTAATCACAGACAGT
AGAATTATGTGTTTATATAAATCTGCTTTTCTTTCCACTACCTTCCCTCCCATCCCATCCTTCTTAGTTCTGTAT
TTGTTTTCTTGCCCTCATGGTAATTGATTTTACAGACAGACTTTAACAAAACCACATTGTTTTGGTGTAACATAAG
GTATTTGCATATTGGTTACCTATTTGTCTTTCTTTTTTAAAGGAACAGATATAAAATGTTTTGTTTATGTAAC
AAGGGACATTTATAATTTCAAGTTGATAATGTTTTAAACAGCTGCTTACAAAAGTATTTCTGTTAAGCCTATGTC
AGCATGTTATCCATGCAGCAGTTTTGAGGATTTTATGAAGAAAAAGAGCTAAAAAGGAACATTAAGAGGAATGGG
ATATCCAGGTGTTCTGCACATGCCAAACTGCTGTAGATAGTTTACACTCTTCCATTATTTATACGGAGTGATGCA
GCACATTTTAGCATTACAGGAGGATTTTTAAAAAATAGCTGCAGATTAATCTGGAAAATGTGCTAATTTAATAATA
GTTACAAAATTTATAAATTTAAATCCATTTGAAATGTTGTCATTATGCTGGGTAGTATATACAAAATGGTTATCAT
CTTAAACCAACTTTTCAGAGAATCTTGATGGACTCTGCCTTTAGGCTTGAATTCTTCAAAGTCTATTTTAATGAA
ATTTATCTAAATTGCAGCAGTCTATTTGATTTCAGCTCATAGACATGTAAAAATTATGAATGCTGTTTTCTTATGA
AACAAATTGTCACAGTGTAGTTATACATTCTATTTTTGTCCCCTTTTCCCTTTTTCTCCTGTATCTTTTAAATTT
TGGAAACTACTTTTTCCAGAAGGCATTATTTATGCCTCCCTAATAAGGTATTTTACTTATGACAGATGAAAAGGAA
CCAGGATATGTTTGAATTTTTTCACTTTCTTAGTCTGTGACAAGAAGTAGAAATATCACTAGTGTGGTATAGGAA
CTTACATGTTTTTTATGATGAAAATAATTCTCAATGCCACTTGAAAGGTAATTGTGTCTGAGAGCTGCAAAATTTT
TCAACCACAAAATGTCACCTTATTCCTACAGGCTATACAGAGGTCTTTATGGTTTTTTTTGTTTTGTTTTAATGGCA
ACATTGTAACGTCAAACATAAAGGGTATTCTGTGATTATCTTTTAAAGCATTACAGAAATTCAAGTGAAAAGTTAT
ATGCTTATTTCTATTGATGTAAAAATGATAATGAAAGCAAAATTAGCTGTATCTGTAATTTTCTCTCTAGTGCC
AAATGAATGCCTTAGCTACTCATAGTGCATGGTACTGTAAGTGAAGACCTGTAGCTTTTTTTTTTTCTTTAATGA
AAAGCATTATAATGATGTAGCAGCATCAGATATAAACTTAAAAAAAAGGTTTCAATTAACATTTTATATATGGA
TAATGCTTTGTAAAGTGTAAAGAGAAAGGTTGCAGTTGGATCAGTATAAAACAATGACCAAGCCAAAATCAGCACC
CTAGGGCCTTAAATAAAATAGAGATACCCACAAAATGAAATATTTTGAAGGATGGGAGGGGACAGAAGGGGGGA
CTATCCCCCAAGGATGCAAGATACTTTTTACAGTTGCTATCATTATACTTTGTCTTCTTGCTTCAGTTAGGAAGG

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FIGURE 1698B

TTTTGATGGTAAATTCGTGTCATGGTAATAGATACCTATTTTCCTAACCTGAGATTTTACAAGGAAGGTTTTTAGG
TTGGCTTAAATGGAGGTATTTATTTGAGTGAGCCCTAATTTGAAAATTACCAGACTTGATCCTCCTGGTATGAAT
CAAGGAAATACTGTACCTTGCTCTTAGCAACTCTCAGTGGCCTGAAAGAGAAAATGCACCTTCTTCAAGGTGAGTG
AATCATGCTTTTTCCACAGTTCAGATCAGACCTTTATTTTTCAAACCTACAAGGCCTGCTTATTGGACAGTCTAA
GGAATAGCTTTGATACTTGGTATTCAGTTGGTTCCATTATTAATGTATATTATTTTTATTAAACATCAAACTT
AAAATATCAGATAATGTTGCATGTTTTAAAAACACATTTTCATCCCTTTGGCTACCCAGGACCAGCACTATTTAAG
ACACTGCTTATTTATAAAATGAGAATAATGATTATATGTACATATTCAGACATCAAAATTTAATGACATTCTATT
TTGAGAAGGGAAGACAATGCTGAAGAAAGTAAACTGTTGATTGAAATGCTGACAGGGTGGAGAACGAATTTGAA
GACAGTGAATAAACTATGAACTATGCTAATGGTAATTAGATTTTTTGTGTTGTTTAGTATAGTGGTAAATTGTGT
AGTATCTTGCTGAGAATCTAATTCTATCTTGTAATAATCAATCCAAATGTGTATTGTGAAACACCTGTATAAAATC
ATTTTTGAAATAAGTGATCTACATGCCTGTTTTTTTTAAAAATGTTTTTGGTAGAATTGTTTGAAAATATGTTTAGC
CAGACCCTTCCCCAACTTAATTTTTTTTTAAAAAAGGAAAATAGGTAAGAAAATGATAGTTCTATATCTCAGCCC
TCTGTGAACCTCTAGGCTGTCTCCATTTTGCAGCCACTTTGGTCATTTGATGTTTACTATTGGTATACTTATGCTT
TGAATTGTAAATCTTCATTGATGGTATTACAGATTCAACCAAACTTCTCTGTCCTGTTTCAGTAATTGTTATATA
AATCTGGATGAGCTAGGGAGGCCAGGTGGATGTTTTTCATTGCGAAATCATGAGAACTTAAGTGGGTTTTATGC
ACTTGATAGAGTTGGCAAAATTGAACTATGAAGTTAACTATTTAACTCAAGGAATGGGCGGCAAAACCCATCCCCT
CGATTGATAAAGAAGGGGAACATTTTTTACATTAGAAGTACACTGAAAACATAGCTTTTTTCAGTCCACCCCTGGTT
GCTCTAGTAGCCACAGCCCAATCACGTAAAGGTTCTTTGCTGTGGGAATTTTAAATAAACCAAAACCCCAAGCA
GACCATCTGTAAGCTTTGGTCTGCTTGTTTCTGAGAAGGGTTTTATTTCAATTATACTAATAGTGGACTAATAATT
GGTAATTGTGAGAACCTTAGGTATGATAACATTGTTTGAAGTAAAATATGATTTGGGGGCAGCAGCTTTCTAAATA
CCAACCTCTGTTTGACAAATGTTTTGAAAATTAATAATTTCAAGTGAGCAACACCCTGTAAAGAGTTTTCACTATAG
TTGAGGCAGCTACTTTATGAATAAGACCCTTTGGGTTATTTAAGCAGAAGCGTTTTCTTTTTTTTTTTTGGAAATG
GGGTGGGATGAGGAGTGAGTTGCCAGACCTTTGATTAGTTTGCTGGTTTAGAAACAGCCAGTGGCTGAATTAGTG
AGTAAATGAATGAAAGTATAAAGGACTTGTTTTTATGATAGATTTTCTGTAAGAATCTTAAATGTTCCTTTTCA
AATTAGATGTGTTGATGCACACATGACTATTCTGTTTTTCTCACTGACTATATAACATTAAAAAGGGTTAAAGA
AAACAAAACCTCTGCCTTTTGTGCTATGAAATATTTTAGTCCAGAGGTTTTAAGCTGTGTGTCCATTCTACTCT
GAAAATGCATAGCTTTGTTCTGGATGTCATCTCTTGAAAGTAGAAAACCTCCTATGTGTTTATCACATTGCAGGGC
TTTCTTATGATTTCTGGCAGACTTGCCCCAATCTTTAGATGGGCTGGGTTATACAGCATGCCCTCCCCAAATA
AGGGATCTGAAATAAATACTACACTATTGATAGTGGAGATATATTAATTTTTTAAACTGTAAAGTAAATGTGGTC
TCTAGGTTTGTGGTGTGTACCTTTGTGTTAATGTGTAGGGAAGAGACAGTGACTTGATGGTTATGGGGAGTGAT
CTTGATGTGTGTATAGGGGTAAGTATTGCTAAATATTTACAGCTTTTATTACAGGGTGAGTCATGTGATGAATGG
CCTAATCAGAAAAGTGAAGGAGCGAAGATGCAAGCTTGCCAAATGATGAAATGAACAAGATTTTGTATCTATTTT
TTATCAGGTGTTGTAAAATTTGTGCATGGCTTTTTGTTGTTGTTGCTTAGTAACTGGTAGAGGAGAAAAGATGAG
GAAAGAACTCAGCTTTCTCACAGTCTTTTCAAAGGTACACAGTTGGGGAGTAAAATCTGACTGGCCTAATCGA
TGGAAAAGACCCTGTCCTTTTCACCCCATCTGCAATCCTCCGTGCAGAGGAACTACACTGTTGTATTCTAGTAA
TTCACTGTGATTTATAACAAACCGGTGATGTCATTCTATTGTGCACTTTTGTCAAACCATTTATGTGACTTTAAT
AAACATAGTAACTTGCTGACTGCACCAGAGGTCCATTAGTGATTTATATATTGCATGACATTTTCTATTTGAGT
TTGACATGTAGAGTCATTTTTAGTTTCATGGCAATTGACAGTCCTAATAACTCAGCTAATTTGAAACTAACAATC
TTGCTGTGTAAAAGGAAAAAATGGTGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG

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FIGURE 1699A

GGTGAACAGCTCAAATCCATTTTTTACATCACAGACCAAAGCCAATGGGAATCCTGCTTGTTCGGCCCAGTTGCA
GCATGTCTCGCCACCCATTTTTCCAGCTCATTTAGCAAGTGTGTCAACTCCATTGTTGTCTCAATGGAAAAGTGT
CATAAATCCAAATATAACTTCTCAGGATAAAAAATGAACAAGGTGGTATGTTATGTTCCCAAATGGAAAAATTTACC
TAGTACTGCCTTGCCAGCACAAATGGAAGATCTAACCAAAACAGTTCTGCCTTTGAATATTGACAGTGGCTCAGA
TCCTTTCTCTCTTTACCTGCAGAAAGTAGTTCAATGTCTCTCTTCCCTTCACCAGCAGATAGTGGGACTAATTTC
TGTTTTTTCCCAACTGGAAAATAATACAAATCATTATTCCTCACAGATTGAAGGAAACACTAATTCCTCCTTTCT
AAAGGGGGGTAATGGTGAAATGCAGTTTTTCTTCACAAGTGAATGTTGCAATAACTTCAGTAGCACCAATGC
CCAACAGTCTGCACCTGAAAAAGTTAAAAAGACCGTGGGCGGGGCCCAAATGGGAAGGAAAGAAAACCTAAGCA
CAACAAAAGGGCTAAATGGCCTGCAATTATCAGAGATGGGAAATTTATCTGTAGCAGGTGTTACAGGGCTTTTAC
TAATCCCAGATCACTGGGTGGGCACTTATCCAAGCGATCTTACTGTAAACCACTGGATGGAGCCGAAATTGCTCA
AGAACTTCTACAGAGTAATGGACAGCCTTCTCTTCTTGCCAGCATGATTCTCTCCACAAATGCAGTAAATTTGCA
GCAGCCACAACAATCTACCTTCAATCCAGAAGCATGTTTTAAAGATCCATCATTTCTACAGCTTCTTGCTGAAAA
TCGCTCGCCAGCATTTTTTACCAAATACATTTCTCGATCTGGTGTGACTAACTTTAATACCAGTGTCAAGTCAAGA
AGGTAGTGAAATTATTAACAGGCTTTGGAACTGCTGGCATTCCCAGTACATTTGAGGGTGCCGAAATGCTTTTC
TCATGTTTCAACAGGTTGTGTCTCTGATGCATCACAAGTAAATGCAACGGTGATGCCAAATCCAAGTACCACC
CCTGTTGCACACTGTATGCCATCCAAACACCTTGCTGACCAACCAGAATAGGACGTCAAACCTCCAAAACCTTCCTC
CATTGAGGAATGTAGCAGCTTGCCTGTTTTTCCAACGAATGACTTACTACTGAAGACTGTTGAAAATGGTTTTGTG
CTCTAGTTCAATTCCTAATTCTGGTGGGCCATCACAAAATTTTACCAGTAACAGTTCTCGTGTCTTGTATATAAG
TGGTCTCAGAACACAAGATCCAGTCATTTAAATAAAAAAGGGAACAGTGCTTCTAAGAGAAGAAAAGAAAGTTGC
TCCTCCACTAATTGCACCTAACGCTTCCCAAAAACCTTGGTAACAAGTGACTTAACAACAATGGGACTCATAGCAAA
GAGTGTGAAATCCCAACTACTAACCTTCAATCAAATGTAATTCCAACCTGTGAACCTCAGAGTTTGGTGAAAAA
TCTAACACAGAAATTAAATAATGTTAACAATCAGTTATTTATGACTGATGTAAAAGAGAATTTCAAAAACAGTCT
TGAGTCCCATACAGTGTTAGCCCCTTTAACATTAAAAACTGAAAATGGTGATTCCCAAATGATGGCTTTGAATTC
ATGCACAACCTTCAGTAAATTTCTGATTTGCAGATTTCTGAAGACAATGTTATACAAAACCTTTGAAAAGACTCTTGA
AATTATTAAAACTGCTATGAATTCTCAAATACTTGAGGTAAAAAGTGGATCTCAGGGTGCTGGTGAAACTTCACA
AAATGCTCAAATAAATTATAACATTAGCTTCTCTCAGTAAACACTGTGCAAAATAACAAATTACCCGATTCTTC
TCCGTTTTCTCTCTTTATAAGTGTGATGCCAACAAAAAGTAACATTCTCTCAGTCTGAAGTATCACATAAGGAGGA
TCAAATACAGGAAATTTTAGAAGGCTTACAGAAATTAAAAATTAGAAAATGACCTATCCACTCCAGCATCCCAATG
TGTAAGTATAAATACATCAGTGACACTGACTCCACGCTGTTAAATCAACTGCAGATATCACAGTTATTCAGCC
AGTTTCTGAAATGATAAACATTCAATTTAATGACAAAGTTAATAAACCCCTTTGTGTGTCAAAAACCAAGGCTGTAA
CTACAGTGCTATGACAAAGGATGCACTATTTAAGCACTATGGTAAAATTCATCAATACACTCCAGAAATGATTCT
TGAAATTAAGAAGAATCAATTGAAATTTGCTCCCTTTAAATGTGTAGTACCTACATGTACAAAAACATTTACAAG
AAATTCTAACCTCCGGGCACACTGTGAGTTGGTGCATCATTTTACAACCTGAAGAAATGGTAAAGTTAAAAATTAA
AAGGCCCTATGGAAGAAAATCTCAGAGTGAAAATGTGCCGGCTCACGAAGTACACAAGTGAAAAAACAGCTAGC
TATGACAGAGGAAAATAAAAAAGGAATCTCAGCCTGCTTTAGAATTGAGAGCAGAGACCCAAAATACCCACAGTAA
TGTAAGCAGTGATCCCAGAAAAACAACCTTATAGAAAAAAAAGTCTTGACAAAACAGAAAGTTCTTTACAAGTGAT
TACAGTTACTTCAGAACAAATGTAATACAAATGCACTCACAAACACACAAACCAAAGGACGGAAGATTAGGAGGCA
TAAAAAAGAAAAGGAGGAGAAAAACGAAAGAAGCCAGTTTCCCAATCCCTTGAGTTTCCAACAAGATACAGTCC
TTACAGACCTTATCGATGTGTTTACCAGGGATGCTTTGCTGCCTTTACGATACAGCAAAATTTGATTCTCCATTA
CCAGGCTGTACACAAATCAGATCTACCTGCATTTTCAGCAGAGGTGCAAGAGGAAAGTGAAAGCTGGTAAAGAAAAG
TGAAGAAAACCTGAACTAAACAACTTTTGAAGAATTTGATGTGAGGTAAGTGACTGTTCTCGAATTTTCCAAGC
AATTACTGGCCTAATACAACACTACATGAAACTTCATGAAATGACTCCTGAAGAAATTGAAAGTATGACTGCTTC
AGTGGATGTTGGGAAGTTTCCATGTGACCAGTTAGAGTGTAATCTTCATTTACTACATATTTGAACTATGTTGT
TCATCTAGAGGCAGACCACGGGATTGGACTAAGGGCAAGTAAAACAGAAGAAGATGGTGTATACAAATGTGATTG
TGAAGGCTGTGACCGTATATATGCAACCCGGTGAATCTCCTCCGACACATTTTTTAATAAGCATAATGACAAACA
TAAGGCTCATTTGATTGCTCCAAGAAGATTAACACCAGGCCAGGAAAATATGTCAAGCAAGGCAACCAAGAAAA
ATCAAAGTCTAAACATCGGGGGACGAAGCACAGCAGATGTGGAAAGGAAGGAATAAAAATGCCCAAGACCAAACG
AAAGAAAAAAAATAATTTAGAAAACAAGAATGCAAAGATTGTGCAGATTGAAGAAAATAAGCCTTATTCTCTGAA

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FIGURE 1699B

ACGTGGGAAGCATGTATATTCTATAAAGGCTAGAAATGATGCCCTGTCTGAGTGTACAAGCAGATTTGTAACCCA
GTATCCATGTATGATAAAGGGATGTACTTCAGTTGTTACAAGTGAAAGCAATATAATTAGACATTATAAGTGCCA
TAAATTATCTAAGGCATTTACATCACAACACCGAAATCTTCTTATTGTATTCAAACGGTGTGCAACTCACAAGT
AAAGGAAACGTCTGAGCAAGAAGGTGCTAAGAATGATGTGAAAAGATTCTGACACGTGTGTATCAGAGAGCAATGA
TAATTCAAGAACAACAGCTACAGTTTCACAAAAGGAAGTTGAAAAAATGAAAAAGATGAAATGGATGAACTAAC
AGAATTGTTTATTACAAAATTAATAAATGAAGATAGCACAAAGTGTAGAGACCCAAGCTAATACTTCTTCAAATGT
AAGTAATGATTTTCAGGAAGATAACCTCTGCCAGTCAGAAAGACAAAAAGCAAGTAATTTGAAGAGAGTTAATAA
GGAAAAAATGTCTCACAAAATAAAAAAGGAAAGTTGAAAAAGCTGAACCAGCATCAGCAGCTGAGTTAAGTAG
CGTGCGTAAAGAAGAAGAACTGCTGTTGCCATTCAAACCATTGAGGAGCATCCTGCATCTTTTGACTGGAGCTC
TTTTAAGCCAATGGGATTTGAAGTATCATTTCTGAAGTTTCTTGAGGAGTCTGCAGTGAAGCAGAAGAAAAATAC
TGACAAAGACCATCCGAATACTGGAAACAAAAAAGGATCCCATTCAAATTCAGAAAAAATATTGATAAGACTGC
TGTGACTAGTGGAAATCATGTATGTCCTTGTAAGAAAGCGAAACGTTTGTACAGTTTGCCAATCCATCAGCT
TCAGTGCAGTGATAATGTAAAAATTGTTTTAGACAAGAATCTTAAAGATTGCACTGAGCTTGTCTTAAAGCAACT
TCAGGAAATGAAACCTACCGTCAGTCTGAAAAAAGTTGAAGTACATTCAAATGATCCAGATATGTCTGTTATGAA
AGATATCAGTATAGGTAAAGCCACAGGCAGAGGTGAGTACTGATAATTAATGTAGTATAAATACATCATTTACCA
TTTTATTTTAAATAGGAAGCCATCAAGCATGCTAGAATTGTGAAACTTTCATTATATTTTTTTGTTGTTGACATG
AATTAACCTGGCCAAAAACAAAAAGAAAAAAAAAACATGACATTTGTGATGTAAAACCTTTTTTTTATCCCTATG
GGACTTGAGGAACAGAATCAGTACTTCAGTTATTGTAAATAGTGAGCTAAACCTCAAATTTCTATCACCAGTTG
CCCTTTTCATGAACATAACAATTATCTGTGTGATTGGTATGTTTCACCAGGTCAGTCTCATGTATAACAGTACT
CTTTATTTGTAGATACCTTTTTTTGTATATATTTATTATTGTAAATCATGTGCTGCCACCAGCAGTCTGTAAAGTCT
AAACTATTAAATGACACATTTATATTTGGAATTTTAATTTTTTAAGCGATCAAGTTTTTTAAATTGTTCTTT
TATTGTTTTAAATTAAGAAGCTTTTTGAACTAAAACAGAACTCTGCCATAGTTCATTGATTTTTTACATGAAACA
TTTATTTACAAGATGATATCAAGATTACTTTTCACAAAATAGGCACATTATATCAACACTTTGCTCTGCTTTGTA
AATTTGCCATCCAGGATTTTGGGGTGGTATTCATGTGAAATTAAGCAGATTCTCTAGCAGTTTCTCTATAGCTAC
AGTTTTTTTTTTTCATTGCTTCTAATTGGATATAGTTACTATGAGTCCATGAAATACAATGGAAATGTGAATAAA
GAATTTACTACATTGAAGATTTTAAACATTTGGTATTAAAAAATCCTTTGTGAATGTGATAGAAAACTAGTA
GTGTGGAGCAGTGTAATATTTGAGGTGGTGATTGTGTAAGTAGCCAGTATTGCCTTAAATAAAATCACATTTT
ATTTCTGTTTTATACATGTGATCTTATAAAGATTTTGTGTTTTGTTTTGTTTTCCATTTTCTGAGATTTATAGA
TTGGTGATAGCTTTAACTGTATAAAGTTTTGTGGAAGATTTTTTTAAACATTTTATAAATCTTAAATTTGA
TATCATCAAAGTGAGCCCATCTTGTTTATAAAATACAAGAGTCCTTAACATTTATAATTACATAGATAAAACA
CTTCTATAAGGAAGTTGGATGTTTTGATTTTACTGTTTATAGATGTTAGATTGTACAGATTTGTCTGTATTTCT
CACCATATCTAATGATACTTTTTTTCATTAGATTGGTCTTCAAGAACAGTATTAGTTATAATTATTTTGGTTATTC
AGTATATAGTTAGCTCTTACAGTTTAGCTTTATTCACCATATTTATACTGTGGATTACAGCGAGAGGTAGAGGT
TATTCAGGAGAGTTGATGACCTTCATTTAAAGTCCAATAAAATCAGTAGTAGAAACATAAGAAAACATCTTTG
CAATATTTACTTTTGTCTGTTTGCCGTAAATAGTAACATTGTTTTTTTTTATTTTGTGTTTGTATAAAAACAG
TTGCATTACAAATATTATTGGCCTGAGATATTGATGATATTGTGATGGTATGAAAATGTGTACATTCCCTGTGCA
ACATCAGATTTGCAGGAAAAATGAAGCACTTACTGAAATCGCTGGTACTCTGAATAAATAAGCATGGTCAAGGAG
TGAACATTTTCTTTTGAAATTTCTTTTTAATTTTTATTATTAAAGTATTTTATTTTGGGCCTTTGGGTTT
TATTGAATAGTTCAATTCACCTGTTTAAAGACTTACTACCAATAAGCATAAAACCTGACACGTTAAAAATCCCTGCC
CTTTGGTGAGCCCACTGTTATTTATTAAAAATAAAAGTTATTTTATGGGTGATT

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FIGURE 1700

VNSSNPFFTSQTKANGNPACSAQLQHVSPPIFPAHLASVSTPLLSSMESVINPNITSQDKNEQGGMLCSQMENLP
STALPAQMEDLTCTVLPNIDSGSDPFLPLPAESSMSLFPSPADSGTNSVFSQLENNTNHYSSQIEGNTNSSFL
KGGNGENAVFPSQVNVANNFSSTNAQQSAPEKVKKDRGRGPNGKERKPKHNKRAKWPAILRDGKFICSRICYRAFT
NPRSLGGHLSKRSYCKPLDGAETIAQELLQSNQPSLLASMILSTNAVNLLQQPQQSTFNPEACFKDP SFLQLLAEN
RSPAFLPNTFFPRSGVTNFNTSVSQEGSEIIKQALETAGIPSTFEGAEMLSHVSTGCVSDASQVNATVMPNPTVPP
LLHTVCHPNTLLTNQNRTSNSKTSSIEECSSLPVFPTNDLLLKTVENGLCSSSFPNSGGPSQNFNTSNSSRVSVIS
GPQNTRSSHLNKKGNSASKRRKKVAPPLIAPNASQNLVTSDLTTMGLIAKSVEIPTTNLHŠNVIPTCEPQSLVEN
LTQKLNNVNNQLFMTDVKENFKTSLESHTVLAPLTLKTENGDSQMMALNSCTTSVNSDLQISEDNVIQNFECTLE
IIKTAMNSQILEVKSGSQGAGETSQNAQINYNIQLPVNTVQNNKLPDSSPFSSFISVMPTKSNIPQSEVSHKED
QIQEILEGLQKLKLENDLSTPASQCVLINTSVTLTPTPVKSTADITVIQPVSEMINIQFNDKVNKPFVQCNQGCN
YSAMTKDALFKHYGKIHQYTPEMILEIKKNQLKFAPFKCVVPTCTKTFTRNSNLRAHCQLVHHFTTEEMVKLKIK
RPYGRKSQSENVPASRSTQVKQLAMTEENKKESQPALELRAETQNTHSNVAVIPEKQLIEKKSPDKTESSLQVI
TVTSEQCNTNALTNTQTKGRKIRRHKEKEEKKRKKPVQSLEFPTRYSPYRPPYRCVHQGCFAAFTIQQNLILHY
QAVHKSDLPAFSAEVEESEEAGKESEETETKQTLKEFRQVSDCSRIFQAITGLIQHYMKLHEMTPEEIESMTAS
VDVGKFPDQLECKSSFTTYLNYVVHLEADHGIGLRASKTEEDGVYKCDCEGCDRIYATRSNLLRHIFNKHNDKH
KAHLIRPRRLTPGQENMSSKANQEKSKSKHRGTHSRGKEGKMPKTKRKKKNNLENKNAKIVQIEENKPYSLK
RGKHVYSIKARNDALSECTSRFVTQYPCMIKGCTSVVTSESNIIRHYKCHKLSKAFTSQHRNLLIVFKRCCNSQV
KETSEQEGAKNDVKDSBTCVSESNDNSRTTATVSQKEVEKNEKDEMDTELFIKTLINEDSTSVETQANTSSNV
SNDQEDNLCQSERQKASNLKRVNKEKNVSQNKKRKVEKAEPASAAELSSVRKEEETAVAIQTIEEHPASFDWSS
FKPMGFEVSFLKFLEESAVKQKKNTDKDHPNTGNKKGSHSNSRKNIDKTAVTSGNHVCPCKESETFVQFANPSQL
QCSDNVKIVLDKNLKDCTELVLKQLQEMKPTVSLKKLEVHSNDEPDMSVMKDISIGKATGRGQY

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FIGURE 1701A

CGCCGCTCTGAGTCCAGCCTCCTACTGAGAACAGTCCCTCCCTTGTGCGGGTCGCACGGCTAGCCGCAGGTTCGG
CCACGTCAAATCCATTTTCTAAAAAGCAGGGAGCAGAGCTCTCTCTTCGCCGCCGACGCAGAAAGGAGCTGGGG
AGGAAAAAGCTGCTGCCCTTTTTCGCTGGAGATTCTGTTGGGCAAGGCTTCTCATTTTCCCAGGCTGCTTCCCCCTCCC
GGGTGAGGAGCGTCTCTGAGACTAAGGAAAGAGCCTGGAAAAATGGAGCAGACCTGGACGAGAGATTATTTTGCAGA
GGATGATGGGGAGATGGTACCCAGAACGAGTCACACAGCAGCTTTTCTTAGTGACACTAAAGATCGAGGCCCTCC
AGTGCAGTCACAGATCTGGAGAAGTGGTGAAAAGGTCCCGTTTGTGCAGACATATTCTTTGAGAGCATTGAGAA
ACCCCTCAGGTACAGACCCAGGCTCTTCGAGACTTTGAGAAGCACCTCAATGACCTGAAGAAGGAGAAGCTTCAG
CCTCAAGCTGCGCATCTACTTCTGGAGGAGCGCATGCAACAGAAGTATGAGGCCAGCCGGGAGGACATCTACAA
GCGGAACATTGAGCTGAAGGTTGAAGTGGAGAGCTTGAAACGAGAAGTCCAGGACAAGAAACAGCATCTGGATAA
AACATGGGCTGATGTGGAGAATCTCAACAGTCAGAATGAAGCTGAGCTCCGACGCCAGTTTGAGGAGCGACAGCA
GGAGACGGAGCATGTTTATGAGCTCTTGGAGAATAAGATCCAGCTTCTGCAGGAGGAATCCAGGCTAGCAAAGAA
TGAAGCTGCGCGGATGGCAGCTCTGGTGGAAGCAGAGAAGGAGTGTAACCTGGAGCTCTCAGAGAACTGAAGGG
AGTCACCAAAAAGTGGGAAGATGTACCAGGAGACCAGGTCAAGCCCCACCAATACACTGAGGCCCTGGCCCAGAG
GGACAAGAGAATTGAAGAAGTGAATCAGAGCCTGGCTGCCCAGGAGAGGCTTGTAAGACAGCTATCTCGGGAGAA
ACAACAAGTCTACATCTGTTGGAGGAGCCAACTAGCATGGAAGTGCAGCCCATGACTGAAGAGTTGCTGAAACA
ACAAAAGCTGAATTCACATGAGACCACTATAACTCAGCAGTCTGTATCTGATTCCCCTTGGCAGAACTCCAGGA
AAAAATCCAGCAAACAGAGGCCACCAACAAGATTCTTCAAGAGAACTTAATGAAATGAGCTATGAACTAAAGTG
TGCTCAGGAGTCGTCTCAAAAGCAAGATGGTACAATTCAGAACCTCAAGGAACTCTGAAAAGCAGGGAACTGTA
GACTGAGGAGTTGTACCAGGTAATTGAAGGTCAAAATGACACAATGGCAAAGCTTCGAGAAATGCTGCACCAAAG
CCAGCTTGGACAACCTTACAGCTCAGAGGGTACTTCTCCAGCTCAGCAACAGGTAGCTCTGCTTGATCTTCAGAG
TGCTTTATTCTGCAGCCAACCTTGAAATACAGAAGCTCCAGAGGGTGGTACGACAGAAAGAGCGCCAACCTGGCTGA
TGCCAAACAATGTGTGCAATTTGTAGAGGCTGCAGCACACGAGAGTGAACAGCAGAAAGAGGCTTCTTGGAACA
TAACCAGGAATTGCGAAAAGCCTTGACAGCAGCTACAAGAAGAATTGCAGAATAAGAGCCAACAGCTTCGTGCCTG
GGAGGCTGAAAAATACAATGAGATTGAAACCCAGGAACAAAACATCCAGCACCTAAACCATAGTCTGAGTCACAA
GGAGCAGTTGCTTCAGGAATTTTCGGGAGCTCCTACAGTATCGAGATAACTCAGACAAAACCTTGAAAGCAAATGA
AATGTTGCTTGAGAACTTCGCCAGCGAATACATGATAAAGCTGTTGCTCTGGAGCGGGCTATAGATGAAAAATT
CTCTGCTCTAGAAGAGAAAGAAAAAGAACTGCGCCAGCTTCGTCTTGCTGTGAGAGAGCGAGATCATGACTTAGA
GAGACTGCGCGATGTCCTCTCCTCCAATGAAGCTACTATGCAAAGTATGGAGAGTCTCCTGAGGGCCAAAGGCCT
GGAAGTGGAACAGTTATCTACTACCTGTCAAAACCTCCAGTGGCTGAAAGAAGAAATGGAACCAAATTTAGCCG
TTGGCAGAAGGAACAAGAGAGTATCATTACAGCAGTTACAGACGTCTCTTCATGATAGGAACAAAGAAGTGGAGGA
TCTTAGTGCAACACTGCTCTGCAAACTTGACACAGGGCAGAGTGAGATAGCAGAGGAGCTGTGCCAGCGTCTACA
GCGAAAGGAAAGGATGCTGCAGGACCTTCTAAGTGATCGAAATAAACAAGTGTGGAACATGAAATGGAGATTCA
AGGCCTGCTTCAGTCTGTGAGCACCAGGGAGCAGGAAAGCCAAGCTGCTGCAGAGAAGTTGGTGCAAGCCTTAAT
GGAAAGAAATTCAGAATTACAGGCCCTGCGCCAATATTTAGGAGGGAGAGACTCCCTGATGTCCCAAGCACCCAT
CTCTAACCAACAAGCTGAAGTTACCCCCACTGGCCGTCTTGGAACAGACTGATCAAGGTTCAATGCAGATACC
TTCCAGAGATGATAGCACTTCAATTGACTGCCAAAGAGGATGTCAGCATACCCAGATCCACATTAGGAGATTTGGA
CACAGTTGCAGGGCTGGAAAAAGAACTGAGTAATGCCAAAGAGGAAGTTGAACTCATGGCTAAAAAAGAAAGAGA
AAGTCAGATGGAAGTTTCTGCTCTACAGTCCATGATGGCTGTGCAGGAAGAAGAGCTGCAGGTGCAGGCTGCTGA
TATGGAGTCTCTGACCAGGAACATACAGATTAAGAAGATCTCATAAAGGACCTGCAAATGCAACTGGTTGATCC
TGAAGACATACCAGCTATGGAACGCCTGACCCAGGAAGTCTTACTTCTTCGGGAAAAAGTTGCTTCAGTAGAATC
CCAGGGTCAAGAAATTTTCAGGAACCGAAGACAACAGTTGCTGCTGATGCTAGAAGGACTAGTAGATGAACGGAG
TCGGCTCAATGAGGCCTTACAAGCAGAGAGACAGCTCTATAGCAGTCTGGTGAAGTTCCATGCCCATCCAGAGAG
CTCTGAGAGAGACCGAACTCTGCAGGTGGAAGTGGAAAGGGGCTCAGGTGTTACGCAGTCGGCTAGAAGAAGTTCT
TGGAAGAAGCTTGAGCGCTTAAACAGGCTGGAGACCCCTGGCCGCCATTGGAGGTGCAGCTGCAGGGGATGACAC
CGAAGATACAAGCACTGAGTTCACTGACAGTATTGAGGAGGAGGCTGCACACCATAGTACCAGCAACTTGTCAA
GGTGGCTTTGGAGAAAAGTCTGGCAACTGTGGAGACCCAGAAGCCATCTTTTTCCCCTCCTTCTCCGATGGGAGG
GGACAGTAACAGGTGTCTTCAGGAAGAAATGCTCCACCTGAGGGCTGAGTTCCACCAGCACTTAGAAGAGAAGAG
GAAAGCTGAGGAGGAAGTGAAGGAGCTAAAGGCTCAAATTGAGGAAGCAGGATTCTCTCAGTGTCACATCAG

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FIGURE 1701B

GAACACCATGCTGAGCCTTTGCCTTGAGAATGCGGAGCTGAAAAGAGCAGATGGGAGAAGCAATGTCTGATGGATG
GGAGATCGAGGAAGACAAGGAGAAGGGCGAGTTGGATAAACCAGTCCCAGCCTCGTGACCCTGGGCCTCAGTCAGC
GTTTAGCCTACCAGGGTCCACCCAGCACCTGCGCTCCCAGCTGTCAACAATGCAAACAACGCTATCAAGATCTCCA
GGAGAAGCTGCTGCTATCAGAAGCCACTGTCTTTGCTCAGGCTAACGAGCTGGAGAAATACAGAGTTATGCTTAC
AGGTGAATCCTTGGTGAAGCAGGACAGCAAGCAGATCCAGGTGGACCTCCAGGACCTGGGCTATGAGACTTGTGG
CCGAAGCGAGAATGAGGCTGAACGGGAGGAAACCACCAGTCTTGAGTGTGAGGAGCACAACAGCCTCAAGGAAAT
GGTCTGATGGAGGGGCTGTGCTCTGAGCAGGGACGCCGGGGCTCAACACTGGCTAGTTTCTCTGAGAGGAAGCC
CTTGAGAACCAGCTAGGGAAGCAGGAAGAGTTCCGGGTATATGGAAAGTCAGAAAACATCTTGGTCTACGAAA
GGACATCAAAGATCTGAAGGCCAGCTGCAGAATGCCAACAGGTCATTCAAACCTCAAGAGCCGGGTCCGGTC
CCTCTCAGTTACAAGTGATTATTCTGTCTAGTCTGGAAAGACCCCGGAAGCTGAGAGCTGTTGGCACCTTGGAGGG
GTCTTCACCTCATAGTGTCCCTGATGAGGATGAGGGGTGGCTGTCTGATGGCACTGGGGCTTTTCTACTCTCCAGG
GCTTCAGGCCAAAAAGGACCTGGAGAGTCTCATCCAGAGAGTATCCAGCTGGAGGCCAGCTCCCCAAAAATGG
ACTAGAAGAGAAGCTGGCTGAGGAGCTGAGATCAGCCTCGTGGCCTGGGAAATATGATTCCCTGATTACAGGATCA
GGCCCGGGAAGTGTCTTACCTACGGCAAAAAATACGAGAAGGGAGAGGTATTTGTTATCTTATACCCGGCATGC
AAAAGATACAGTAAATCTTTTGAGGATCTCCTAAGGAGCAATGACATTGACTACTACCTGGGACAGAGCTTCCG
GGAGCAACTCGCCAGGGAAGCCAGCTGCAGAGAGGCTCACCAGCAAACTCAGCACCAAGGATCATAAAAGTGA
GAAAAGATCAAGCTGGACTTGAGCCACTGGCCCTCAGGCTCAGCAGGGAGCTGCAGGAGAAGGAGAAAGTGATTGA
AGTCTGTCAGGCCAAGCTGGATGCTCGGTCCCTCACACCCTCCAGCAGCCATGCCTTGTCTGACTCCCACCGCTC
TCCCAGCAGCACCTCTTCTGTCTGATGAAGTGGAAAGCCTGCTCTGACATGGACATAGTCAGCGAGTACACACA
CTATGAAGAGAAGAAAGCTTCTCCCAGTCACTCAGATTCCATCCATCATTGAGTCATTCTGCTGTGTTGTCTTC
TAAACCATCATCAACCAGTGCATCTCAGGGGGCTAAGGCCGAATCCAACAGCAACCCCATCAGCTTGCCAACTCC
CCAGAATACCCCCAAGGAGGCCAACCAGGCCCATTCAGGTGCCAGCACTGTTTCTCTGCTTCCACAGCTACATT
GCTGAGCAACGACTTGGAAGCCGACTCTTCTACTACCTCAACTCTGCCAGCCTCACTCTCTCTCCAGGGGCAC
CATAGAAGTGGGAAGAATCCTAGAGCCTGGGTACCTGGGCAGCAGTGGCAAGTGGGATGTGATGAGGCCTCAGAA
AGGGAGTGATCTGGGGACCTATCTCAGGCTCCTCTGTGTACCAGCTTAAGTCCAAACCCACAGGGGCTGACCT
GCTGGAAGAGCATCTTGGTGAATCCGGAACCTGCGCCAGCGCCTGGAGGAATCCATCTGCATCAATGACCGCCT
ACGGGAGCAACTGGAACACCGGCTGACCTCTACTGCTCGTGGAAAGGGGATCCACTTCTAAGTCTACAGTCAGGG
CCTGGAGTCCATACCTCAGCTCTGCAATGAGAACAGAGTCTCAGGGAAGACAATCGAAGACTTCAGGCTCAACT
GAGTCATGTTTCCAGAGAGCACTCCCAGGAAACAGAAAGCCTGAGGGAGGCTCTGCTGTCTCTCGATCCCACCT
TCAAGAGCTGGAAGAGGAGCTGGAGCACCAGAAAGGTGGAAGGCAGCAGCTTTTGAAGACTTGAGGGAGAAGCA
GCAAGAGGTCTTGCATTTAGGGAGGAACGTCTTCCCTCCAGGAAACGACTCCAGACTGCAGCACAAGCTGGT
TCTCTGTCAGCAACAGTGTGAAGAGAAACAGCAGCTCTTTGAGTCCCTCCAGTCAGAGCTACAAATCTACGAGGC
ACTTTATGGCAATTCCAAGAAGGGGCTGAAAGCTTACAGCCTGGATGCCTGTACCAAATCCCTTTGAGCAGTGA
CCTGAGCCACCTGGTGGCAGAGGTACGAGCTCTGAGAGGGCAGCTGGAGCAGAGCATTAGGGGAACAATTGTCT
GCGACTGCAGCTGCAACAGCAGCTGGAGAGCGGTGCTGGCAAAGCCAGCCTCAGCCCCTCCTCCATTAACCAGAA
CTTCCCAGCCAGCACTGACCCTGGAAACAAGCAGCTGCTCCTCAAGATTAGCTGTGTCCCCTCCAGTCCGGGA
TGTTGGTATGAATTCCCCAGCTCTGGTCTTCCCCAGCTCTGCTTCTCTACTCCTGGCTCAGAAACGCCCATAAT
CAACAGAGCAAATGGCTTGGGTTTGATACTTCTCCAGTAATGAAGACCCCTCCCAAGCTAGAGGGTGATGCTAC
TGATGGCTCCTTTGCCAATAAGCATGGCCGCCATGTGATTGGCCACATTGATGACTACAGTGCCCTAAGACAGCA
GATTGCGGAGGGCAAGCTGCTGGTCAAAAAGATAGTGTCTTGTGAGATCAGCGTGCAGCTTCCCTGGCCTTGA
AGCCCAAGGCACAGAGGTGCTAGGCAGCAAAGGTATTATGAGCTTCGGAGCAGCACCAGTGCCCTGCACCATGC
CCTAGAGGAGTCAGCTTCCCTCCTCACCATGTTCTGGAGAGCGGGCCTGCCAAGCACCCACATCCCTGTGCTGCC
TGGCAAAGTGGGAGAATCAACAGAAAGGGAACCTTCTGGAAGTGAAGCAACAAAGTATCCAAACAGGAGCGACTCCT
TCAGAGCACAACTGAGCATCTGAAGAACGCCAACCAGCAGAAGGAGAGCATGGAGCAGTTTATTGTGAGCCAGCT
AACCAGAACACATGATGTTTTAAAGAAGGCAAGGACTAACTTAGAGGTGAAATCCCTAAGGGCTCTGCCATGTAC
TCCAGCCTTGTGACCCTTGCTTCCAGGAACCATGCAAGAAGCGCAGCCACCAGAAGTCTTAAACAGCAGGAA
AGGTGGGCCTGTCCCCCTTTTGTGAGCTACCTATCTGCTGAGGAGCATCTGGGCCTCATTCTCCAAGTCCACG
GGAGGGTCCAGAAGAGGGAGTCAGAGATGTATCCTGGTGGAGCTGGGAGAAAGGCAGAAAGCCTTTCTGACGGCT

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FIGURE 1701C

ATGGAATACGATTAGCCAAGGTCCACTTGGCCCAGCACTAAGAAAAAGATGCGTAGTTTGCACAGAAGGTTTTGT
GATCCTGCCTCTCAACAGCCCCAGCAGCTTGGGAACTAGCAAGAGCACATTTCTTGCCTCATCAGCTGTCCTGAG
ATGGAAAACTCAGTGAATATAGGACCCTGATTCCGATGAAAGGGGCACGTGGTCCCAATGCTGGAGCTCCTCTGG
CAGGTTCTAAAAGCACACTACTGAGCAGCGGTGCCCTGCCGGACACTGCTGGCGGGGGCTCAGTGAGCACTACTC
ACAGATCCACACCTGACCCTGTTGGGTGCGAGTCAGGCTGGGCCTTGGTCTGCACTGTAGCACCTGTGTTCTTTGA
GTTACATCATGAATGTGGTGACTTCCAGATACCATCTCAGGCTTAACCTAGCACATCCTATTTCTTTCTTCT
ATGATATCCAAATTGGACTGACCTCACTTCAAAGTTGCTGTCCCATTTTGTACCCCTATCTTATCTCGGGGAAAT
TGCAGACTGATGGCCAGACCAACTCTGTTGAAATTCTTGCATAGAGCAAACCTGTGCTCATTTTTAAGTGGCATG
GGAGAGGCCCCAAGCCTAGTAAAGCCTAGTCTGTGTCTTCACAGTGCTGGTAGAATGTGTTTGTGTGTATAAATA
TATGATATAGATTTATATATGTTGCTAACGCCATATATTGAAGGCCAACATAACTGGTGGACAGGGTGGGTGACA
GAAAATGAAAGTCTTTTTGGTGATTGTTAAAGCAAAATGTGTATAAAGAAATAAATAGTTTTTCTTTC

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FIGURE 1702A

TGCCATGCTGCTGCACGGACAGGATGTGATCACTGTGTCCAATGGAGGCCGAATCATGCGTTCCTGGGAGACTAA
CATCGGGGGCCTGAACTGGGAGATAACCCCTGGACAGTGGCAGTTTCCAGGCACCTTGGGCTGGTTGGCCTGCAGGA
GTCTGTAAGGTACATCGCAGTCCTGAAGAAGACTACACTTGGCCCTCCATCACCTCTCCAGTGGGCACCTCAAGTG
GGTGAACATCTCCCAGAAAGTGACAGCATCCACTACCAGATGGTGTATTCTTACGGCTCTGGGGTGGTGTGGGC
CCTCGGAGTTGTTCCCTTCAGCCATGTGAACATTGTCAAGTTTAATGTGGAAGATGGAGAGATTGTTTCAGCAGGT
TAGGGTTTCAACTCCGTGGCTGCAGCACCTGTCTGGAGCCTGTGGTGTGGTGGATGAGGCTGTCTGGTGTGTCC
TGACCCGAGCTCACGTTCCCTCCAACTTTGGCTCTGGAGACGGAATGGGAGTTGAGACAGATCCCACTGCAGTC
TCTCGACTTAGAATTTGGAAGTGGATTCCAACCCCGGGTCTGCTACCCAGCCCAACCCAGTGGACGCTTCCCG
GGCCAGTTCTTCTGCACTTGTCCCAAGCCACTATGCTCTGCTGCAGTACCATTATGGAACGCTGAGTTTGCT
TAAAACTTCCCACAGACTGCCCTAGTGAGCTTTGCCACCCTGGGGAGAAGACGGTGGCTGCAGTCATGGCCTG
TCGGAATGAAGTGCAGAAAAGTAGCAGTTCTGAAGATGGGTCAATGGGGAGCTTTTCGGAGAAGTCTAGTTCAAA
GGACTCTCTGGCTTGCTTCAATCAGACCTACACCATTAACTTATACCTCGTGGAGACAGGTTCGGCGGCTGCTGGA
CACCACGATAACATTTAGCCTGGAACAGAGCGGCCTCGGCCTGAGCGGCTGTATATCCAGGTGTTCTTGAAGAA
GGATGACTCAGTGGGCTACCGGGCTTTGGTGCAGACAGAGGATCATCTGCTACTTTTCTGTCAGCAGTTGGCAGG
GAAGGTGGTGTGTGGAGCCGTGAGGAGTCCCTGGCAGAAAGTGGTGTGCTAGAGATGGTGGACCTCCCCCTGAC
TGGGGCACAGGCCGAGCTGGAAGGAGAATTTGGCAAAAAGGCAGATGGCTTGCTGGGGATGTTCTGAAACGCCT
CTCGTCTCAGCTTATCTGCTGCAAGCATGGACTTCCACCTCTGGAAAATGTTTTATGATGCTCGGAAGCCCCG
GAGTCAGATTAAGAATGAGATCAACATTGACACCCTGGCCAGAGATGAATTCAACCTCCAGAAGATGATGGTGTAT
GGTAACAGCCTCAGGCAAGCTTTTGGCATTGAGAGCAGCTCTGGCACCATCCTGTGGAACAGTATCTACCCAA
TGTCAAGCCAGACTCCTCCTTTAACTGATGGTCCAGAGAACTACTGCTCATTTCCTCCATCCCCACAGTGCAC
CCTGCTGGTGAAGGACAAGGAGTCGGGAATGAGTTCTCTGTATGTCTTCAATCCATTTTTTGGGAAGTGGAGTCA
GGTAGCTCCCCCAGTGTGTAAGCGCCCCATCTTGCAGTCCTTGCTTCTCCAGTCATGGATCAAGACTACGCCAA
GGTGTGCTGTTGATAGATGATGAATACAAGGTCACAGCTTTTCCAGCCACTCGGAATGTCTTGCGACAGCTACA
TGAGCTTGCCCCCTCCATCTTCTTCTATTTGGTGGATGCAGAGCAGGGACGGCTGTGTGGATATCGGCTTCGAAA
GGATCTCACCCTGAGCTGAGTTGGGAGCTGACCATTCCCCCAGAAGTACAGCGGATCGTCAAGGTGAAGGGGAA
ACGCAGCAGTGAGCACGTTTATTCCAGGGCCGTGTGATGGGGGACCGCAGTGTGCTCTACAAGAGCCTGAACCC
CAACCTGTGCGCGTGGTGACAGAGAGCACAGACGCGCACCATGAGCGCACCTTTATTGGCATCTTCTCATTGA
TGGCGTCACTGGGCGTATCATTCACTCCTCTGTGCAGAAGAAAGCCAAAGGCCCTGTCCATATCGTGCATTGAGA
GAACTGGGTGGTGTACAGTACTGGAACACCAAGGCTCGGCGCAACGAGTTTACCCTACTGGAGCTCTATGAGGG
CACTGAGCAATAACAACGCCACCGCCTTCAGCTCCCTGGACCGCCCCCAGCTGCCCCAGGTCTCCAGCAGTCCTA
TATCTTCCCGTCCCTCCATCAGTGCCATGGAGGCCACCATACCCGAACGGGGCATCACAGCCGACACCTGCTGAT
TGGACTACCTTCTGGAGCAATTCTTTCCCTTCCTAAGGCTTTGCTGGATCCCCGCCGCCCGAGATCCCAACAGA
ACAAAGCAGAGAGGAGAACTTAATCCCGTATTCTCCAGATGTACAGATACACGCAGAGCGATTATCAACTATAA
CCAGACAGTTTCTCGAATGCGAGGTATCTACACAGCTCCCTCGGGTCTGGAGTCCACTTGTTTGGTGTGGCCTA
TGGTTTGGACATTTACCAAACCTCGAGTCTACCCATCCAAGCAGTTTGACGTTCTGAAGGATGACTATGACTACGT
GTTAATCAGCAGCGTCTCTTTGGCCTGGTTTTTGGCCACCATGATCACTAAGAGACTGGCACAGGTGAAGCTCCT
GAATCGGGCCTGGCGATAAAGAACAAGACTGTGCCTAAAAGTGGAGAGCCAGGGGAGTGTGGGTGAGATAAGCA
GCTACAGCTGCAGTTTGGTGGATTGGTGGAGTATGTGTGTGTGTCAGTGTCTAGCTAAGAACTGTAGGGGAAGATG
GATGACCTTCACGCAGAACTCCTTTTGGGATATACATGATGCAGAAAGGATCCTACATGGAGAGAGACAGAACTC
TCTCAGCTGACACTCTCAGAGATTCTGATGGGCTTTCTCTTGAAGTCCAAAGGCGTCTGCATTGTTTCTTTCT
TTGCCCATCCATGAATGTTCTGTTTTGTTTTTTTTTAATAAGAATTCCGGCTGATTTTTTGTGAGGCCTGTTTTAAAT
TGACTTTACTTTGCCTTTTGTGTTTTCTCAATTTTATCTAGAAATCTTTCTGACTTTTTTCCATCTCTTGCTTCAAA
GTAAGAGGGGAACTCTCCTTGCCGACTCCACCTTATAGGTACATTTGGTGTGTTTGCAGTGGGAAGAAATAGGATC
CATCCTTAGCTGAGGCTTGAGGACTGATCCAGCCTCTCATGGCTTCCCTCCAAAGTAACCTTAGGGTTGAGGGATC
TATATGTGATGTCAAACTTACTTTAAACCTCTAGTTTCGTGCTGTCAATTTATTAGGCTGGGCCACCAATCTTT
GTTTCAATTTATCAGAAGCCAAGTGCATACTAGCGTCTTGTGTTGTTGCCATTGCCTATACTTTTACCTGAGAT
GTGTGAGTTGGGGCCTTTTAAAACTACTGAATTGCTGAGCCTTGAAGACATTTCCAGGGAGAAGAGATAATCT
CTCATTTACCCACAGGCTGGTCTAATCATAACCTAGTTAAAGATGTCCTTGTTTAAAGAACCCCATTTATTTATTT

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FIGURE 1702B

TTAGTTTTTAATATAAAATTAACATGTGGGTCATTATATTTCTCCTTAAATGAGGAAATTTTAAATTTTATTGATC
TAACCTTTGAAGCTTTAAAAAAGGAGAAAAGAGGGTAGGGGTGGGAAACTGGCATACTGTGTGTATAGCACTGCCG
ATTGGCTAGGCCACTGTGTCTCTGCTACAAATTAAAGAAATCCTAAAAGTTTTCTTGGTCATAGAGTTGGGGAA
TGACAGAATTTTTCTTTGTTGTGAAATGTATGTACAGAGTAGACCATCTCTAGCCCTGTGGTGAAAAGAGGTACAC
TCGAATGTTTGCATAAAGCAAGTGACAAATGACACTGTTTAAAGTCCTCTTTTGTGTCTTAGAAGATCATTGAG
GCTATTTTACATTAGAGGGGATAAAAGCAGTGAAGACATGGAGTAAGTGTATTTTATTTTAGTAAGGAAAGGTC
AGTTTAATCATATATGGGTTGGTTAGGTTATCTAAAAATTTGTCATCTTTCTATGGTCATATGCTGATGGTAGAT
TATGGCAGAGAAGGAAGAGGAAATGACAACCATTTTATTAATTGTCAGTTTGATATTGAGTGACTGAATGTCTAA
GAATCTCCAGAAAAAACAGGCATCTATCATCTGACCCAAGGCATATTTAACATAACCTGGGAGAAGAGAGTT
AAGTACAAGTTAAAAAAATTTCTGCCCTAGTTTTGAGAAAGCCTGGCTGGAATTCTGACTGTCTTACATACATAT
GTGCAAGGTTAGCCTGCAAGATTCTAGTTTTTATTTACCAGTGTGCCAGAATCTGAAACAAGCTACTGGGAGGGA
AGGTATTTGTCCTTTAGTAAAATTCCTGTATTTTCTAGCTGTAATCAAAGTTACCTCAAAGCAGGTGCTTTTTTTT
TTTTTGAGACCCCTGGCTCAAAAACAAAAACAAAACTAGTTTGTTTTAGTATTCATTAATTACGTATATGAGCAC
TGGTAGTCTAGTGTGTTCTTGTATACAGTGTCTTAAATGAGATGATGCTATTTAATTCTGTTACTTGTGTTT
TTTCAACTAATGGATCTTTTAAAGTTTTTTATTTAAATTTTTTGTTGGGTACATATTAGGTACATATACTTATGGG
GTACATGAGATGTTTTTATAAAGGCTCAGCTAATGTATCTTGAATATCATGTATTCATAAAGATGACTGAAATAG
TTTCTGGAACAAAGTCTGATAGAAAAATACTCAATTCCTAATTTAAGTGTTAGAGACTTTAATGTAAGCTATCT
AATCTGAACTAGTTTCATTATTTGTGTGTGGGTACATGTTATGTGCTCCGTAAGGCATCTTCAATTTGAAAATT
TCATAATTGTAATTCCTGCCTTTATAAATTGCTTTTTTTTTGGAGGCAGGGTCTCTGTACCCAGGCTGGAGAG
CAGTGGCACAGTCATAGCTCACTGCAGCCTCGAACACCTGGGCTGAAGTGATCCTCCCTCCTTAGCCTCCCAAAG
TGCCGGGATTACAGGCATGAGCTACTGCACCTGGCCCATAAATTGTCATACTTTTAAAGAGCCTATTACACAAAG
TATCATCAGAATCATCCCAAGACTCATTTTCTGATTCCTAATTATTTAAAATTTTGCTTTTAGGCGAGGCATGGT
GGCTCAAGCCTATGGTCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTTGAGGTCAGGAGTTTGGGACCAG
CCTGGCCAACATGGTGAAACCTGAAACCCCATCTCTACCAAAAAAATGAAAAATTTAGCCAGGTGTGGTGGTGC
ATGCCTGTAATCCCAGCCTCCCGAGTAGCTGGGGCTCAGGCGTGCGCCACCATGCCCGGCTAATTTTTGTATATT
TATGAAATGCCAAGAGATAGTTCAATCTGCCTCTCTGGCAAGCCATGGACACCAGGTCTGACAACTCTCTTAC
TCCTTAAGACAAATGCTCACCTGATCAATATGGGGAAATAAGCTGCATGGTACCATAATTTCTATTCTAAAAGGG
AAAAGTATCTCTTTGGTATTGCTTTGGAAAACATTCTTTATAACTATCTTGCTATTTAAAAATTGACAATTATCC
TTCCATAATTAAAAACAGGTAGACAAC

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FIGURE 1703

AMLLHGQDVITVSNGGRIMRSWETNIGGLNWEITLDSGSFQALGLVGLQESVRYIAVLKKTTLALHHLSSGHLKW
VEHLPESDSIHYQMVSYSYSGGVVWALGVVPF SHVNIVKFNVEDGEIVQQVRVSTPWLQHLSGACGVVDEAVLVCP
DPSSRSLQTLALETEWELRQIPLQSLDLEFGSGFQPRVLP TQPNPVDASRAQFFLHLSPSHYALLQYHYGTLSLL
KNFPQTALVSFATTGEKTVAAVMACRNEVQKSSSSSEDGSMGSFSEKSSSKDSLACFNQTYTINLYLVETGRRLD
TTITFSLEQSGTRPERLYIQVFLKKDDSVGYRALVQTEDHLLFLQQLAGKVVLWSREESLAEVVCEMVDLPLT
GAQAELEGEFGKKADGLLGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARDEFNLQKMMVM
VTASGKLFGISSSGTILWKQYLPNVKPDSSF KLMVQRTTAHFPHPPQCTLLVKDKESGMSSLYVFNP IFGKWSQ
VAPPVLKRPILQSLLLPVMDQDYAKVLLLIDDEYKVTAFFPATRNVLRQLHELAPSIFFYLVD AEQGRLCGYRLRK
DLTTELSWELTIPPEVQRIVKVKGKRSSEHVHSQGRVMGDRSVLYKSLNPNLLAVVTESTDAHHERTFIGIFLID
GVTGRIIHSSVQKKAKGPVHIVHSENWVVYQYWNTKARRNEFTVLELYEGTEQYNATAFSSDRPQLPQVLQQSY
IFPSSISAMEATITERGITSRHLLIGLPSGAILSLPKALLDPRRPEIPTEQSREENLIPYSPDVQIHAERFINYN
QTVSRMRGIYTAPSGLESTCLVVAYGLDIYQTRVYPSKQFDVLKDDYDYVLISSVLFGLVFATMITKRLAQVKLL
NRAWR

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FIGURE 1704A

GGCCCATGGAGCTGCGTCACCTGCTGCGCCCCCGGCCAGGATTGGACTCGGAACCAGGCGGAGCTGAGGCTGGAA
AGGCCCCGACACGCAGGTGCTGTTCATCCGCACATTATCAGGCATGGCCAGGCACCAGGGTCCTGCACGTGCTCTGC
GCTACTTTTGACCTCACGCCCAGCATGGCGGGCATCATGGTACCCCCCTGTACAGCGATGGCCAGGGCCTGGCTTCA
CCTTTTCATGCCTGGCTCTGTCTGCACCCTATGGATACAGCACCTACCCCTGCCCCCACCAGACCTCCAGCGAA
AGCAGCTGTACAGCTTCTTTACCAGCAGCGGCTCAGGGTTTGAGGCCCTTCTTCACGGCGGCGGGGACCCTGGTG
TGGCTGTGTGCACACGGAAGGAGTATTTGACCATGAGTTTGCCCGAAGTGTCTTTGCGGACTCTGCCTGGCACT
GCGTGGCTATCGTCCATGTGCCTGGGCGCGGGCCCTTCAGCCAGAACCTGGTCCATGTCTACAAAGACGGCCATC
TGGTCAAGACAGCACCCCTTCGCTGCCCCCTCCCTCAGTGAGCCTTTCTCCTCCTGCTGTATCGGCTCCGCTGGAT
ACCGCACAAACGACCACCACACAGGGCTGCCCCACACCACAGTCCCCGCCACCCTGGCCTACACTCACCCCGCCC
TCACCCGCTCCCAGTCAGTCCCAGCCTCCACAGGGCTTGGCTGGGGGTCCGGGCTGGTGGCCCCCTGCAGGAGG
GCAGCATCGACTCTACCCTCGCAGGCACCCAGGACACTCGGTGGGGCAGCCCCACATCCCTGGAGGGTGAGCTGG
GGGCTGTGGCCATCTTTACGAAGCCCTGCAGGCGACGGCTCTGAGGACCCTGTGCACCCTGGGGCCCCAATGAGA
CGGCACCCCTTCAAGCCTGAGGGGGAGCTGCATGAGCTCAGCACCAGGCTGCTCCTCCATTACTACCTCAGGCTT
GTAAGAACAACATCTGCCTGGACCTGTCCCCAGTCATGGGCTTGATGGGCGCCTGACGGGCCACAGAGTGGAGA
CCTGGGATGTGAAGGATGTGGTGAAGTGCCTTGGGGGTATGGGTGCCCTGCTGCCCTGCTGGAGCGAGTAGCTG
CACAGCCCCAAAGAGGCTGAAGCAGGTCCAGCTGAAACGCATGACCTCGTGGGTCTGAACTGACCTCTGGTCACA
ACACCCAGGGCCTGGTTCTCCATTGGGTAAATCTTCAGAGGAACGGATGGAGAGGAACGCAGTGGCTGCTTTTC
TGCTGATGCTGCGGAACCTTCTTCAGGGTCACATGGTGAACCAAGAGAGCCTGGTGCAGTGCCAGGGGCTGCCA
TCATCGGGGCCCTCCTGCGAAAGGTCCCAAGCTGGGCCATGGACATGAACGTGCTCATGTCCGCCAGCTGCTGA
TGGAGCAGGTGGCAGCTGAGGGCAGCGGGCCCCCTCCTGTACCTACTCTACCAGCATTGCTCTTCAACTTTTACC
TCTGGACCCCTCAGTGACTTCGCCGTGCGCCTCGGTTCACATCCAGTACATGTCCAGCATAGTTGGGAGCACAGAC
AGAAGCTGCGGAAGAAGTACGGCGTCCAGTTTATCTTGATGCTCTGCGCACCCACTACAGCCCCGAGCGGGAGC
GCCCCCTGGCTGCTGACGACCTACGCACCGTGCAGACCTCCCTCCTGGGCTGGCGAGGGAGTTCTGGTGC
GTCTCTCAGCAGATGACGTGCAGGTACGCAGACCATGCTGAGCTTTTTGGCGGCCACAGGCGATGACGGTCAGA
TCCTGCGCAGACTGCAGCAGAATGAGCGGCTACCTGAGCGGAGCCGCCAGCGCCTCCGGCTGCGGGAGTGTGGTC
TCCAGGGTCTGGTTGCCTGCTTGCTGAGGGGACTGTTTCCCCCAGCTCTGCCAGGGCCTCTACAAGCTGTTC
TGGGGGAGGATCAGGCAACACTGCTGGTGGTGGCGGCAGCAGTGGGACTCTTACTCCAGCCAGCCAGCCCCGCA
CTCCTTCGCCACTGGATGGGCGCGGGCCCTTCTGCTGCTCCTGGCGCCACAGCTCCAGTCTCTCCAATGTGC
TGGAGGACGGCAGCCTCCCGGAGCCCACCATAGCGGGGATGATACTCGAACACCAGCAACCCACAGCAAACCT
CTGAGGAAGAGTTGTGCAATCTGCTCACCAACGTGCTGTTCTCGGTGACGTGGCGTGGCGTGGAAAGGCAGCGATG
AGGCTGCCTGGCGGGAGCGTGGCCAGGTTTTCTCAGTGCTCACCCAGCTGGGGGCTCAGCCACACTTGTGCGCC
CACCAGACTGCATCAAGCGCAGCCTCCTGGAGATGATGCTGGAGTCAGCCCTGACCGACATCAAAGAGGCCCCCG
TGGGGGTCTGGCCAGCCTCACCCAGCAAGCGCTTTGGCTGCTGCGTCTGCTGCAGGACTTCTGTGTGCTGAAG
GCCATGGTAACCAGGAACGTGTGGAGTGAGAAGCTCTTTGAAGGTGTATGCAGCCTACTTGATCGCCTGGGAGCCT
GGCCCCACCTGGCCAACGGCACAGCTGATCTCCGTGAGATGGCGCAGATTGGCCTACGGCTTGTACTTGGCTACA
TCCTGCTGGAAGACCCACAGCTGCATGCCCAGGCCTACGTGAGATTGCACATGCTGCTACAGACTGCAGTGCCAG
CCCGCCGCGAGGAGGCCTGCTATGTGCTCTCCAAGCTGGAGGCTGCACTGGGGCGGGTGTGAACACCTCTTCT
TGGAGTCAGCCACTGATGAGGCAGGGTCCCCACTTGCAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCT
GGCTGGTACCACTGGTGCACAGCTGCTAGACCGTGCCTATGAGCCGCTGGGGCTGCAGTGGGGACTGCCCTCCC
TGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTTTTGTGCCACACCCGAATGGCGCCACT
TCATCGACAAAACAGGTACAGCCAACCATGTCCCAGTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGT
CAGGTTTTCTGGAATGCCTGCTATGACATGCTTATGAGCAGTGGGCAGCGGCGCCAGTGGGAGCGCGCCAGAGTC
GTCGGGCTTCCAGGAGCTGGTGTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACGCTACACGGCAG
TGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGGGGCGCTGTGGCGCCAGCTCGCCAGCC
CATGTGGGGCCTGGGCGCTGAGGGACACTCCCATCCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTACGCA
TGGCTCTGAAGCTGGTGGCCAACCATCACTTCGACCCCTACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTG
AGGTTCCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAAGAGGCCAAAGTGAGCACCCAC
CCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCTGGAGACCCCGATGGAGGCAGCAGAAC

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FIGURE 1704B

TGGATGAGCAGCGTGAGAAGCTGGTGCTGTCGGCCGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGC
TGCTGGAGGTCACCACACAGAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAACCGAGGAGGGCATCG
GCTATGATTTCCGGCGCCCACTGGCCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCGCCGTTCAGCAC
TTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCCTCAACTTCCCATGCAAGGTGGGCACGACCCAGTCTCAT
CTCCTAGCCAGACTCCCAGACCCAGCCTGGCCCCATCCCACCCCATACCCAGGTACGGAACCGAGTGTACTCGT
GGCTCCTGCGCCTACGGCCCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCCTCAG
GCCTTACCCAGAAATGGGTACAGCGTGAGATATCCAACCTTCGAGTACTTGATGCAACTCAACACCATTCGCGGGC
GGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCTTGGGTCTGCAGGACTACGTGTCCCCAACCCCTGGACC
TCAGCAACCCAGCCGTCTTCCGGGACCTGTCTAAGCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGA
GGGAGAAGTATGAAAGCTTTGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCACTACTCCAATG
CAGCAGGCGTGATGCACTACCTCATCCGCGTGAGCCCTTCACCTCCCTGCACGTCCAGCTGCAAGTGGCCGCT
TTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGCACGCCTGGAGAGCCCTGCCGATGTGA
AGGAGCTCATCCCGGAATTCTTCTACTTTCTGACTTCCTGGAGAACCAGAACGGTTTTGACCTGGGCTGTCTCC
AGCTGACCAACGAGAAGGTAGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCCTGAGGACTTCATCCAGCAGC
ACCGCCAGGCTCTGGAGTCCGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTTTGGCTACAAGC
AGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCACCTATGAGGGGGCTGTAGACCTGGACC
ATGTGACAGATGAGCGGGAACGGAAGGCTCTGGAGGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGC
TGAAGGAGCCACATCCAACCTCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACGCCTGGACACTAACTCAC
CTAGCATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGAGAGGTTGTGAGTGATGGTGTACCCCTGGTGC
TAGCCCTGGTCCCCCACCAGCAGCCCCACTCCTTCATCACCCAGGGTTCCCCAGACCTGTTGGTGACTGTGAGTG
CCAGTGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAGCTTCAGCAAAG
ACCCACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTGGGTGCCAGGCAGTGGTGTGAGTGGAC
AAGCACTGGCAGTGGCCCCGGATGGAAGCTGCTATTTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGACTG
CACTACCCCGTGGCAAGCTGTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCT
GTGGCATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCAGGGTGGTCTGT
CAGTAGGCCTGGCACCAAGCCTGTGCAGGTCCCTGTATGGGCATGGGGCTGCAGTGAGCTGTGTGGCCATCAGCA
CTGAACTTGACATGGCTGTGTCTGGATCTGAGGATGGAACCTGTGATCATACACACTGTACGCCGCGGACAGTTTG
TAGCGGCACTACGGCCTCTGGGTGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGA
TTGTGGTACAGAGCTCAGCGTGGAACGTCCTGGGGCCCAGGTCACCTACTCCTTGACCTGTATTTCAGTCAATG
GGAAGTTGCGGGCTTCACTGCCCCCTGGCAGAGCAGCCTACAGCCCTGACGGTGACAGAGGACTTTGTGTTGCTGG
GCACCGCCAGTGCGCCCTGCACATCCTCCAACATAACACACTGCTCCCGGCCGCGCTCCCTTGCCCATGAAGG
TGGCCATCCGCAGCGTGGCCGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCG
TGGTGGTTCGCGGGCAGCCCTCTGAGGTGCGCAGCAGCCAGTTTCGCGCGGAAGCTGTGGCGGTCTCGCGGCGCA
TCTCCCAGGTGTCTTCGGGAGAGACGGAATACAACCTACTGAGGCGCGCTGAACCTGGCCAGTCCGGCTGCTCG
GGCCCCGCCCCGGCAGGCCTGGCCCCGGGAGGCCCCGCCGAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCC
AGGGGGGTGAGCGGGGCCACCCTGCCAGCTCAGGGATTGGCGGGCGATGTTACCCCTCAGGGATTGGCGGGC
GGAAGTCCCGCCCCCTCGCCGGCTGAGGGGGCCGCCCTGAGGGCCAGCACTGGCGTCTGCGGCCGC

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FIGURE 1705

NQESLVQCQGPAAIGALLRKVPSWAMDMNVLMASQQLMEQVAAEGSGPLLYLLYQHLLFNHFWTLSDFAVRLGH
IQYMSSIVREHRQKLKRYGVQFILDALRTHYSPQREPLAADDLRTVQTSLLGLAREFLVRSLSADDVQVTQTM
LSFLAATGDDGQAVGALDLLLLALLHGSILVQESLAVFLLEPGNLEVLLALLVRPGSLPLLPDRVCKILRRLQQNER
LPERSRQRLRLRECGQLVACLPEGTVSPQLCQGLYKFLGADCLNLSDLLAVVQLSLQADLSVRLDICRQLFH
LIYGQPDVVRLRLARQAGWQDVLTRLYVLEAATAGSPPSSPESPTSPKPAPPKPPTESPAEPSDVFLPSEAPCPD
PDGFYHALSPFCTPFDLGLERSSSVSGSNTAGGGGSSGTLTPASQPGTPSPLDGPRPFPAAPGRHSSSLSNVLEDG
SLPEPTISGDDTSNTSNPQQTSEEEELCNLLTNVLF SVTWRGVEGSDEAAWRERGOVFSVLTQLGASATLVRPPDC
IKRSLLEMMLESALTDIKEAPVGVLASLTQQALWLLRLLQDFLCAEGHGNQELWSEKLFEGVCSLLDRLGAWPHL
ANGTADLREMAQIGLRLVLGYILLEDPLHAQAYVRLHMLLQTAVPARREEACYVLSKLEAALGRVLNTSSLESA
TDEAGSPLAAAAAAAAAERCSWLVLVRLTLLDRAYEPLGLQWGLPSLPPTNGSPTFFEDFQAFCATPEWRHFIDK
QVQPTMSQFEMDTYAKSHDLMGFWNACYDMLMSSGQRRQWERAQSRRAFQELVLEPAQRRARLEGLRYTAVLKQ
QATQHSMALLHWGALWRQLASPCGAWALRDTPIPRWKLSSAETYSRMRLKLVNHHFDPHLEASALRDNLGEVPL
TPTEEASLPLAVTKEAKVSTPPELLQEDQLGEDELAELETPMEAAELDEQREKLVLSAECQLVTVVAVVPGLLEV
TTQNVYFYDGSTERVETEEGIGYDFRRPLAQLREVHLRRFNLRRSALELFFIDQANYFLNFPCKVGTTPVSSPSQ
TPRPQPGPIPPHTQVRNQVYSWLLRLRPPSQGYLSSRSPQEMLRASGLTQKWVQREISNFEYLMQLNTIAGR
TYNDLSQYPVV

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FIGURE 1706

CAAAACATTGAGGAAAGCCAGGCAGTAGAGGCCGCTATGGCGAACGTTCCGTGGGCAGAGGTCTGCGAGAAAATTCC
AGGCGGGCGCTCGCTCTGTGCGGGGTGGAAGTGCATAAAAAATCCGGAGAAGGAACCATACAAGTCCAAATACAGCG
CCCCGGGCGCTACTGGAAGAGGTCAAGGCGCTGCTCGGCCCTGCGCCTGAGGACGAGGATGAGCGGCCTGAGGCCG
AGGACAGCCCCGGGTGCCGGTGACCACGCCCTGGGGCTGCCGGCTGAGGTGGTGGAGCCGAGGGGGCCCGTCGCC
AGCGAGCGGTGAGGCTGGCAGTCATCGAGTTCCACCTCGGGGTGAACCACATCGACACGGAGGAGCTGTGCGCGG
GGGAGGAGCACCTGGTGAAATGCCTGCGGCTGCTGCGCAGGTACCGGCTCTCGCACGACTGCATCTCTCTCTGCA
TCCAGGCGCAGAATAACCTGGGTATCTTGTGGTCTGAAAGAGAAGAAATTGAACTGCACAGGCTTACCTAGAGT
CATCAGAAGCACTATATAATCAGTATATGAAAGAGGTGGGAGTCCTCCTCTTGATCCTACTGAGCGTTTTCTTC
CTGAAGAAGAGAAAACCTTACTGAACAAGAGAGATCAAAAAGATTTGAAAAGGTTTATACTCATAACCTATATTACC
TAGCTCAAGTCTACCAGCATCTGGAATGTTTGAGAAGGCTGCTCACTATTGCCATAGTACACTAAAACGCCAGC
TTGAGCACAATGCCTACCATCCTATAGAGTGGGCTATCAATGCTGCTACCTTGTACAGTTTTACATCAATAAGC
TATGCTTTTATGGAGGCCAGGCACTGTTTATCAGCTGCTAATGTCATTTTTTGGTCAAACCTGGAAAGATCTCAGCCA
CAGAAGACACTCCTGAAGCTGAAGGAGAAGTGCCAGAGCTTTATCATCAAAGAAAGGGGAAATAGCAAGGTGCT
GGATCAAATACTGTTTGAAGTCTCATGCAGAATGCCAACTCTCCATGCAGGACAACATAGGAGAGCTTGATCTTG
ATAAACAGTCTGAAGTCTAGAGCTTTAAGGAAAAAAGAACTAGATGAGGAGGAAAGCATTTCGAAAAAAGCTGTGC
AGTTTGAACCGGTGAAGTGTGTGATGCCATCTCTGCAGTAGAAGAGAAAGTGAAGTACTTGAAGACCTTTAGATT
TTGAAGAAGCCAGAGAAGCTTTTCTTATTGGGTGAGCACTATGTCTTTGAGGCAAAAGAGTTCTTTTCAAGATTGATG
GTTATGTCACTGACCATATTGAAGTTGTCCAAGACCACAGTGCTCTGTTTAAAGTGCTTGCAATTCTTTGAAACTG
ACATGGAGAGACGGTGCAAGATGCATAAACGCAGAATAGCCATGCTAGAGCCCCTAACTGTAGACCTGAATCCAC
AGTATTATCTGTTGGTCAACAGACAGATCCAGTTTGAAAATTGCACATGCTTACTATGATATGATGGATTGGAAGG
TTGCCATTGCTGACAGGCTAAGGGATCCTGATTCACACATTGTAAAAAAATAAATAATCTTAATAAGTCAGCAC
TGAAGTACTACCAGCTCTTCTTAGACTCCCTGAGAGACCCAAATAAAGTATTCCCTGAGCATATAGGGGAAGATG
TTCTTCGCCCTGCCATGTTAGCTAAGTTTCGAGTTGCCCGTCTCTATGGCAAATCATTACTGCAGATCCCAAGA
AAGAGCTGGAAAATTTGGCAACATCATTGGAACATTACAAATTTATTGTTGATTACTGTGAAAAGCATCCTGAGG
CCGCCCAGGAAATAGAAGTTGAGCTAGAAGTTAGTAAAGAGATGGTTAGTCTTCTCCCAACAAAAATGGAGAGAT
TCAGAACCAAGATGGCCCTGACTTAATCCTTGTTTTTAAAGAAAGGAAATGTGCAATATTGAAGTGATCTTTTC
CCTAGTCAGACAGGCCCAATTCCATTGTGATGTTTACCTTTATAGCCAGGTGAGTGCAGTTTGAAGTTGAGATAC
AGTCAACTGAGTGTGTTGCTAGGATCCTAAGGAACATAAAGTTAATTAAAACTTACACCTAATTATGTAAATTGC
CTTGTTAAAGACATGTGATTTGTATTTTAGATGCTTGTTTCCTATTAAAAATACAGACATTTCTACCCCTCAGTTTC
TAAATGTAGACTATTTGTTGGCTAGTACTTGATAGATTCTTGTAAGAAAAATGCTGGGTAAATGTACCTGGTAA
CAAGCCTGTTAATATATTAAGATTGAAAAAGTAACTTCTATAGTTACTCCTTCTAAAATATTTGACTTCTACAT
TCCCCCACCCAAAATCTTTCCCTTTTGAAAATACTAAAACTAAGTTATGTTATTATAAAGTGTAAGTGGTTT
GTCTTAATTATAGGAGAAAAAGGCCTTGTTAGAAATAAAATAAACTGACTTATTTCACTAATG

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FIGURE 1707A

CCAGTTTCCACTTTTGGAGAAGCAGGATGTTGAATGTGAGTAATGACACAACAGGCCTATAAAATGCGGACTAACC
CTCGGATGACTCATCCGGTACAATGCAGCTACTATTTGTCAAGGAGACTGAACTCATACTATGGGGGAAACCACT
TCTCAGGCAGCCAGCTGGTTCTCAGGTCAGCAAGAGACGATCCATTTTTATCGGAAGCTTTATAGTAGCAATAAT
GCTAATACCCAGCACTCGGGCTCCACAATGTAGAGGAAATGGCATCGCCTGGCAGTGACAGCTATATTGTGCGTG
TCAAGGCTGTGGTTATGACCAGAGATGACTCCAGCGGGGGATGGTTCCACAGGAAGGAGGCGGGATCAGTCGCG
TCGGGGTCTGTAAGGTCATGCACCCGAAGGCAATGGACGAAGCGGCTTTCTCATCCATGGTGAACGACAGAAAG
ACAACTGGTGGTATTGGAATGCTATGTAAGAAAGGACTTGGTCTACACCAAAGCCAATCCAACGTTTCATCACT
GGAAGGTCGATAATAGGAAGTTTGGACTTACTTTCCAAAGCCCTGCTGATGCCCGAGCCTTTGACAGGGGAGTAA
GGAAAGCAATCGAAGACCTTATAGAAGGTTCAACAACGTCATCTTCCACCATCCATAATGAAGCTGAGCTTGGCG
ATGATGACGTTTTTACAACAGCTACAGACAGTTCTTCTAATTCTCTCAGAAGAGAGAGCAACCTACTCGGACAA
TCTCTCTCCCACATCTGTGAGCACCGGAGGATTTATACCCTGGGCCACCTCCAGACTCATACCCACAGACC
ACTATCACCTCGATCAGCCGATGCCAAGGCCCTACCGCCAGGTGAGCTTCCGGACGACGACGAGGAGATCGTGC
GCATCAACCCCGGGAGAAGATCTGGATGACGGGGTACGAGGATTACCGGCACGACCCGTCAGGGGCAAGTACC
CGGACCCCTCGGAGGACGCGGACTCCTCTACGTGCGCTTCGCCAAGGGCGAGGTCCCCAAGCATGACTACAAC
ACCCCTACGTGGACTCCTCAGACTTTGGCCTAGGCGAGGACCCCAAAGGCCGCGGGGGCAGCGTGATCAAGACGC
AGCCCTCCCGGGGCAAGTCGCGGCGGGCGGAAGGAGGACGGAGAGCGCTCGCGGTGCGTGACTGCAGGGACATGT
TCAACCACGAGGAGAACCGCGGGGCCACTGCCAGGACGCGCCCGACTCCGTGAGAAGTTGCATCCGCCGGGTGA
GCTGCATGTGGTGC GCGGACAGCATGCTCTATCACTGTATGTGCGACCCCGAGGGAGACTATACAGACCCCTTGCT
CGTGCGATACTAGCGACGAGAAGTTTTGCCTCCGGTGGATGGCTCTTATTGCCTTGTCTTTCTTGCCCCCTGTA
TGTGCTGTTACCTGCCCTTCGGGCTGCTACCACTGCGGAGTGATGTGCAGGTGCTGTGGCGGGAAGCACAAAG
CGGCCGCGTGACTCAGTTTCCCTCCCTTCTCCCTCCATCCGCAGCCACAGGGGAAGTCTGCTCTTACATACTCTC
ATCTTCTCCCCGCTCCCTTCCACTCCAAGGAGCGAGGAGGGCAAGCGGCCTCCAGCTCCCTGGTACCTCGAGG
CACCATTCCAGCCAGGGACGCTGCCGGGTAGACTCTCCACTCCCCCTGCCGCCACACTGCAGCAGCCACATCCA
TACACACACGCTCGCACAGTGTTCTGAGGAAGGAACCTTCGCCACAGACTCCTGTACTATTAACAATCTGTAAAC
AAGCTAACTGTCTCATCCATGTGTTGATTTCCCTGTTTCCCTCCCTCCCGCCTCTTCCAGTTCAAAGGAGTCTGCA
ATTGGAAGTGTGATTTTCCGTGGGTTTTGTAGTTGATTTTCCAAGAGCGTCGAAGACTCTCTTTCTCTTGTT
CACCTTGCCGTGCTAGCAAGCATCTGGTTCAGCGGAAATGGGATGTGAGAATGATGAAACCCGACAGAAATAT
CTCAGCCTGCAGTCAGTTATTATGTATAGGAGGTGAGCTAGTTAACAACTTGTACCACAAAACAATATCGCTTT
AACTTTTCTAAAGCCAAATTTCCCATGTAAGCTGCAGTTTCTATCTTTAGCCCATCATATTTTCTGCCCCCA
AAATCTGTTGAAATGATTCAGTGAAGCAAAACATTACCCGTAATAGACTGAGAATTGAGCCTTAACTTCAGATT
AACTTGTGAGAATCAGGAAAATTCCTTCAACTGCATTGCATCCTCTTGGACCAGGGCTAGAATGGGGATTTTCAAG
TTTCTATGAGCCTCCCCATTACCCCTAAAGTAGAACATTTTTTAAATTGTGTTGCCACCACCTTCTAAAAATTTAG
CAATATTAGAATAGGATACTAGTGAAGTAAGAAATTTTGCTTGTGTTTGGCAAACCAATAGTTTCTCAAACA
CAAATCAGTGTTCCACGAACAAGTTCAGTTGAGAAACACTAAGGTTATGGTGAATAAAACCATAGGGAGCTTC
TTCCCCCAACCCCTGGCTATTTTATATTAATGGGGAGAGGGGATTTTAAATGTCATAAATTTGAAGAGTGGTG
GGTTGCATTTTCTTCATGGGTTTATGTTTTCGTTTTCATTTTGGACTCAATTTACATACCAAATTCCTCATTTA
TACTTGGGGAAAAACAAGGCCATATGTAAAAACCCCTTCCAATGCCTAAGTGTCTTTCTCCTGCAACTCCAAACC
CAGACTCGCCACTTTGGGTGCACAGGTGGTTAGGTCAGCCAACTGGTTCTGCCTGTGCGCTTGCCACGGAGGAGG
CTTCTAATTAGCTGGAAAAGAGTATTTTTCTAATACGTTGCAAGGATTAGCCAAATCTTCTTATTGAAGAAAGAA
GAAAAGTGAAGAGTGGTTACCTATACCTAGCATAGTACAATCAGAACCTCGTGGAGACCACCGGGGACAGGCTTG
CGGACGCGGGCTGTTCTTCCCGCCACGATCTTCTGTGGTAGCGGCCAGCAGAAGACATGGCCTGCTCCCCACTC
CCTTTCCCCACTCCTTCTTTATTGACACACAGGACACCACTCTTCAAGGAAAGGGACTTTTTTCCAGTCTGCCAAT
CATATTGGGAAAGTGCTAGCTGTGCTCACCTTCATGGGGCTGTTTCCAGCTCGTCCACAAGCTCATCGATTTTCT
TTAGTAGATTACCGGTGTAAATACCCAGTGTGCTTATGAGTCAGTTAGTAGACGTCTTCATTCAATTGGAGTAACT
GGTTTAGGCTTTCCAGTTTGAAAAGGAGCAGAGAGCTGTCCATCTGGATTGATGGAAGAAAAGAGAACCTCATC
CATGCCTGGAGAACATCTAGAAAACCTTCAGCCAGCCTCCAGTGCTGTGAGAGACCACCTTCCCCGACCCGGA
GGCACTTCCCTGGGGTCTTTCTCTAGGGTCTCTTCTCTACAAAGCACAACTAATGTTTCTTCTTAGACCTC
AGTTCAAGTGCCCTATTTATTTCAATAAGAACGCACATATCCAGCTGTTTTTGTGTTGTCACCTCTATTTAGT

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FIGURE 1707B

TGTTACCTGTTTCTCTCTTCTTTACCCCTTGTCCTTTTCCACCCTTTTAAGAGTTACGCTAGCAGATCTTACTC
CACGTATACTTTTTGGTTTGTGAAGGCATCGGTAAAGGGCACAAAGACAGCCATGGGGACATTTATGTAAATACG
TCTCTAATTGCCACACTGCAGCTGAACAGTGTGTAGTATTTTCCAGTCAGCTTTGCCATACTGACGTCAATCAT
TTGAGAGAAATTATTCAGATTTTATTTTGTATCTGTGGTAAACAAAACATTAACCAAAAGATTTTCTGTCCAGAA
GCCTCCCCGACCCCCCAAGCTATTTGCTCACATTAACAAATTAAAGTGCCTGAAGCATAATTCATTCTTTACCTG
TATACTAAAAACCCTGTTGTATTGATTTTTTTATAATAAGCCTTTTTACCTCTGTGTAAAAAATATATATAACAAG
TGTATGATGTACATTTTAGTTCTTAACTTTTTTTATGGTTTCTAATATGTATGACCAATGTAGCCATTGCTTTA
AAATGTACCGTGTAATATAAACACATCCTATCAGAAAAGAAAAAATCNAGAACGAA

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FIGURE 1708

MASPGSDSYIVRVKAVVMTRDDSSGGWFPQEGGGISRVGVCKVMHPEGNGRSGFLIHGERQKDKLVVLECYVRKD
LVYTKANPTFHHWKVDNRKFGLTFQSPADARAFDRGVRKAIEDLIEGSTTSSSTIHNEAELGDDDVFTTATDSSS
NSSQKREQPTRTISSPTSCEHRRITYTLGHLHDSYPTDHYHLDQPMRPYRQVSFPDDDEEIVRINPREKIWMTRY
EDYRHAPVRGKYPDPSEDADSSYVRFAKGEVPKHDYNYPYVDSSDFGLGEDPKGRGGSVIKTQPSRGKSRRRKED
GERSRCVYCRDMFNHEENRRGHCQDAPDSVRTCIRRVSCMWCADSMLYHCMSDPEGDYTDPCSCDTSDEKFCLRW
MALIALSF LAPCMCCYLPLRACYHCGVMCRCCGGGKHAAA

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FIGURE 1709

GGGGGTATTTCTGAAAGATGCTAATCTATTTGCCAACTTGGTCTTGAATGTACTGGGGGCTTCAAGGTATGGG
TATATTTTTCTTGTGTCTTGCAGTTAGCCCCATGTCTTATGTGTGTCTGAAAAATAAGAGCCTGCCCAAGA
CTTTGGGCCTCTTGACAGAATTAACCACTTTTATACATCTGAGTTCTCTTGGTAAGTTCTTTAGCAGTGTTCAAA
GTCTACTAGCTCGCATTAGTTTCTGTTGCTGCCAACAGATCTGAACTAATGCTAACAGATCCCCCTGAGGGATT
TTGATGGGCTGAGCAGCTGGCTGGAGCTAGTACTGACTGACATTCATTGTGATGAGGGCAGCTTTCTGGTACAGG
ATTCTAAGCTCTATGTTTTCTATACATTTTCATCTGTACTTGCACCTCACTTTACACAAGAGGAAACTATGCAAA
GTTAGCTGGATCGCTCAAGGTCACCTAGGTGAGTTGGCAAGTCCATGCTTCCCCTCAGCTCCTCAGGTCAGCAA
GTCTACTTCTCTGCCTATTTTGTATACTCTCTTTAATATGTGCCTAGCTTTGGAAAGTCTAGAATGGGTCCCTGG
TGCCTTTTTACTTTGAAGAAATCAGTTTCTGCCTCTTTTTGGAAAAGAAAACAAAGTGAATTGTTTTTTACTGG
AAAGTTACCCAATAGCATGAGGTGAACAGGACGTAGTTAGGCCTTCTGTAAACAGAAAATCATATCAAAACACT
ATCTTCCCCTCTGTTTCTCAATGCCTGCTACTTCTTGTAGATATTTCAATTCAGGAGAGCAGCAGTTAAACCCGT
GGATTTTGTAGTTAGGAACCTGGGTTCAAACCCTCTTCCACTAATTGGCTATGTCTCTGGACAAGTTTTTTTTT
TTTTTTTTTTTAAACCCCTTCTGAACTTTCACTTTCTATGTCTACCTCAAAGAATTGTTGTGAGGCTTGAGATAA
TGCATTTGTAAAGGGTCTGCCAGATAGGAAGATGCTAGTTATGGATTTACAAGGTTGTTAAGGCTGTAAGAGTCT
AAAACCTACAGTGAATCACAATGCATTTACCCCCACTGACTTGGACATAAGTGAAAAGTCCAGAGTCTCTTT
TTCAAATTACTTACAGGTTATTCAATATAAAATTTTTGTAATGGATAATCTTATTTATCTAAACTAAAGCTTCCT
GTTTATACACACTCCTGTTATTCTGGGATAAGATAAATGACCACAGCACCTTAATTTCTAGGTGGGTGCCTGTGA
TGGTTTATTGTAGGTAAGGACATTTTCTCTTTTTTCTAGCAGCTGTGTAGGTCCAGAGCCTCTGGGAGAGGAGGGG
GTAGCATGCACCCAGCAGGGGACTGAACTGGGAAACTCAAGGTTCTTTTTACTGTGGGGTAGTGAGCTGCCTTTC
TGTGATCGGTTTCCCTAGGGATGTTGCTGTTCCCTCCTTGCTATTTCGCAGCTACATACAACGTGGCCAACCCCA
GTAGGCTGATCCTATATATGATCAGTGCTGGTGCTGACTCTCAATAGCCCCACCCAAGCTGGCTATAGGTTTACA
GATACATTAATTAGGCAACCTAAAATATTGATGCTGGTGTTGGTGTGACATAATGCTATGGCCAGAACTGAAACT
TAGAGTTATAATTCATGTATTAGGGTTCTCCAGAGGGACAGAATTAGTAGGATATATGTATATATGAAAGGGAGG
TTATTAGGGGAGAACTGGCTCCACAGTTAGAAGGCGAAGTCGCACAATAGGCCGTCTGCAAGCTGGGTTAGAGAG
AAGCCAGTAGTGGCTCAGCCTGAGTTCAAAAACCTCAAAAGTGGGGAAGCTGACAGTGCAGCCAGCCTTCAGTCT
GTGGCCAAAGGCCCAAGAGCCCCCTGGCAACCAACCCACTGGTGCAAGTCCCTAGATTCCAAAGGCTGAAGATCCTG
GAGTCTGATGTCCAAGAGCAGGAAGAGTGGAAGAAAGCCAGAAGACTCAGCAAACAAGGTAGACAGAGTCTACCA
CCACAGTGGCCATACCAAAGAGGCTACCGATTCTTCTCTGCTACCTGGATCCCTGAAGTTGCCCTGGTCTCTGCA
CCTTCTAAACCTAGTTCTTAAGAGCTTTCCATTACATGAGCTGTCTCAAAGCCCTCCAATAAATTCTCAGTGTA
GCTTCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1710

MLLFPSLLFAATYNVANPSRLILYMISAGADSQ

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FIGURE 1711A

ATGTGATGA

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FIGURE 1712

PQRSAGCSGTAGCAAGDAPAGAMAPAMQPAEIQFAQRLASSEKGIRDRAVKKLRQYISVKTQRETGGFSQEELLQ
EELANTIAQLVHAVNNSAAQHLEFIQTFWQTMNREWKGIDRLRLDKYYMLIRLVLRQSFEVLKRNGWEESRIKVFL
DVLMEVLCPESSQSPNGVRHFHFIDYLDDELSKVGGKELLADQNLKFIDPFCKIAAKTKDHTLVQTIARGVFEAIV
DQSPFVPEETMEEQKTKVGDGDL SAEIIPENEVSLRRAVSKKKTALGKNHSRKDGLSDERGRDDCGTFEDTGPLL
QFDYKAVADRLLLEMTSRKNTPHFNRKRLSKLIKKFQDLSEGSSISQLSFAEDISADEDDQILSQGKHKKKGKLL
EKTNLEKEKGSRVFCVEEEDSESSLQKRRRKKKKKHHLQPENPGPGGAAPSLEQNRGREPEASGPKALKARVAEP
GAEATSSTGEESGSEHPPAVPMHNKRKRPRKKS PRAHREMLES AVLPPEDMSQSGPSGSHFQGPGRGPTGGAQLL
KRKRKLGVPVNGSGLSTPAWPPLQQEGPPTGPAEGANSHTTLPQRRRLQKKKAGPGSLELCGLPSQKTASLKKR
KKMRVMSNLVEHNGVLESEAGQPQALGSSGTCSSLKKQLRAESDFVKFDTFPLPKPLFFRAKSSSTATHPPGPA
VQLNKTPSSSKKVTFGLENRMNTAEFKKTDKSLVSP TGP SRVAFDPEQKPLHGVLKTPTSSPASSPLVAKKPLTT
TPRRRPRAMDFF

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FIGURE 1713A

GTGCGCCAGCAACCGAGCGGGGCCCCGGCCCCGAGCGGGGCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCCAGAACCCAGCTGTAAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGCAGGGAGCCCCACCGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGACGACCTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCCAGTGGAACATCGGGA
GCCTCCGGACCATCCTGGACATGGTGGAGCGCGAGTGCGGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCCTGAAGA
AGTACGGGATCCCCCTCAGCCGATCAGCAGGAGGCCGGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGCACGTGCCGAAGGACATGGTCAAGATCTCCATGGACGTGTTCTGTCGCATCCTGCAGCCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGCTGGACCACACGCGGCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCCTCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGCAGGTCTCACCGGAAACGGA
GCCAGCCCCAAGAAGCCGAAGCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCGAGCTGAAGGAGGAGGCTGGGCCGGAGGTTGACCCCGAGGAGGAGGAGGAGGCCGAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCCCGCTGCTCACTTCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCTGTCGCCCTGAGGTGCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCCTGCCAGCAGGCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACCAAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGACG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAAGCCCCGGGCCGAGAGGGGACGGTCCACATTTTCCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCCTGGGCCGGCCGCCACCCGGTCCCCACTGTCGGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCCTTGA
GGCCGCTGCTGTCTCTGCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAGAGGGCTGCCCGGCCACATTACCCTCCAAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGCTGCCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGTGGACGTGTTCCCGGTGCGCGGCCACGCCTGGACTGCGGAGTGCTGCCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTACTGCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCTT
TCCACGTGACCTGCGCCACGCGCAGGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAAGTCGGGGGGTACGCTGTCCAACTCCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATCACCA
AGAACCGCCAACGGGCTGTACTACCGCTGTGCGCTCATCGGTGCCGCCTCGCAGACCTGCTACGAAGTGAAGTTTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGGTCCAGCTGACGGTGAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTCACTGAGCACGGGGGCACCGCAGGAGCCCGCCTTCTCGGGG
AGGAGGCCAAGGCCCAAGCGCCCGCGTGTGGGACCCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGGAGAGCCTCCTGCAGGTGCAGGGCCGGCCGGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCCTCAGCCCGCGGGGAGGCCATGGCATGCCCGGGCGTTCGCTTGCTGTGAATTCCTGTCTCTGCTGTC

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FIGURE 1713B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAAACCACTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAAACAAAACAAAACAAACAC
ATTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTGAGAGCATCTCGCTGTTTTTTTGTGTGTTGTTTTAAATAT
TATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACG
CCCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTG
GTGCCAGTGCCTGTGCCCACTCTGTGCCTGTGAGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTG
GCCAGGGGAAGCCCGGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGT
TTGTCTATCTTTGTTTCTCTCACCCGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGACAAAGCACCCCTG
CACCTCCCATGGCTCAGGATGAGGGAGGCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTTGGACAGCTTCCCAGCT
CTTCGGGTACAACCTGAGCAGGTGCGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCTTTTCGCTGCTTCC
GGGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGG
AGTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTC
ACCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAA
TTTGCTTATATTAAAAACAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCAT
CACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGT
GGGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCCTCAGCCTGGGCAA
CAGAGCGAGACCCCTGTCTCCAAAAAAAAAAAAAAAAAGCAATGTTTATATTATAAAAGAGTGTCTAACAGTCCCCG
GGCTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCTTGGTGGGGGAGGGG
GGCGGTTGCCCTGGAGAGGGCCGGGGTTCGGGGAGGTTGGGGGGTGTCAGCCAAAACGTGGAGGTGTCCCTCTGCA
CGCAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAATGCTATTTATATTGTAAAGAAG
CGGGCGGGTGCCCTGCTGCCCTTGTCCCTTGGGGGTACACCCATCCCTGGTGGGCTCCTGGGCGGCCTGCGC
AGATGGGCCACAGAAGGGCAGGCCGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAA
AGACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTC
CTGCCTCTAGGTTCAATGAATTAAAGGTTTCATGAACGCTGCG

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FIGURE 1714

RIFGASPPRNLAIQKCASRTAAAMGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPK
EWKPRQTYDDIDDVVIPAPIQQVVTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERKYWKNLT
FVSP IYGADISGSLYDDDVAQWNIGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYH
FGEPKSWYAIPPEH GKRLERLAIGFFPGSSQGCD AFLRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYH
AGFNHGFNCAESTNFATLRWIDYGKVATQCTCRKDMVKISMDVFVRILQPERYELWKQGKDLTVLDHTRPTALTS
PELSSWSASRASLKAKLLRRSHRKRSQPKKPKPEDPKFPGEGETAGAALLEEAGGSVKEEAGPEVDPEEEEEEPQP
LPHGREAEGA EEDGRGKLRPTKAKSERKKKSFGLLPPLPPPPAHFPSEEALWLPSPLEPPVLGPGPAAMEESPL
PAPLNVVPPPEVPSEELEAKPRPIIPMLYVVPRPGKAAFNQEHVSCQQAFAEHFAQKGPTWKEPVSPMELTGPEDEGA
ASSGAGRMETKARAGEGQAPSTFSKCLKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDAL
RPLLSLQWKNRAASFQAERKFNA AARTEPYCAICTLFYPYCQALQTEKEAPIASLGEGCPATLP SKSRQKTRPL
IPEMCFTSGGENTEPLPANSYIGDDGTSPLIACGKCCLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNL
RGGALQMTTDRRWIHVICAIAPPEARFLNVIERHPVDISAIP EQRWKLKCVYCRKRMKKVSGACIQCSYEH CSTS
FHVTCAHAAGVLM EPDDWPYVVSITCLKHKSGGHAVQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNF
DDGSYSDNLYPESITSRDCVQLGPPSEGELVELRWTGDNLYKAKFISSVTSHIYQVEFEDGSQ LTVKRGDIFTLE
EELPKRVR SRLSLSTGAPQEPAFSGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

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FIGURE 1715A

CGGCACCGTCGTAGGTGCGGGCCGCATGAATGGAGCGCCGGGCGTAAGGCAAAGCCTGGCACCGTCTGCGCGGCC
GCTATCTGCTCCCGGAGCGTGAGTGCGGGGTGTGGGGCGTGCGCGTGC GCGCTCAGAGGGGGCTCAAGGCGAGCG
CGCCGGGCGAGTTGCGGGCGCGTGCGTGTGAGGTTGGCGGCGGTGCCGCGCGCCGACGGGCGGGTGGTTGCGGG
GCCTCCCGCCTCGACCCGGGCTGGGGGCGAGCCGTGGCGGGCGCCGGGGACCGCAAGGGGCGGAGGAAAGGAGGGG
GCCGGTCCCGGCACGCAGAGGAGCAGCCGACCATGCCCCGAGACAACATGGCCTCCTTGATCCAACGGATCGCCC
GCCAGGCTTGCTCACCTTCCGGGGCAGCGGGGGCGGCCGCGGCGCTTCCGATCGCGACGCGGCTTCTGGCGCGG
AGGCGCCGATGCAGCCGGGCTTCCCCGAGAACCTGAGCAAGCTGAAGAGCCTCCTGACCCAGCTCCGCGCCGAGG
ACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCAACCTGCCGCCAGTCACCTACATGCACA
TCTACGAGACGGACGGCTTCAGCCTGGGCGTGTTCTGCTCAAGAGCGGCACGTCCATCCGCTGCACGACCACC
CGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCGTGCGCATCAGCTGCATGGACAAGCTAGACGCGGGCG
GCGGGCAACGGCCGCGGGCCTTGCCGCCGAGCAGCAGTTTCGAGCCGCGCTGCAGCCCCGGGAGCGAGAAGCCG
TGCGGCCGGGCGTGCTGCGTTTCGCGGGCCGAGTACACCGAGGCCAGCGCCCCCTGCATCCTCACACCGCACCGGG
ACAACCTGCACCAGATCGACGCCGTGGAAGGGCCTGCCGCTTCTTGACATCCTGGCCCCGCCCTACGACCCGG
ACGATGGCCGGGACTGCCACTATTACCGGGTGCTGGAGCCGGTCAGGCCCAAGGAGGCCTCCAGCTCGGCCTGTG
ACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTTCTGGTGCGAGGGAGAACCCTATCCAG
GTCCCAAGGTCTTCCCTTGAAGCCACTGGCGCCAGGAGCGGTGGGCCGAAGACGTGCCCTACCCTACCACAAGG
GCTGTGTCTCTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCAGCAGCCGCTTCTCGGCAGCCTTGGG
AAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGGCGGGGTGGGCGGGGAGGCTAGATTGTTTCC
TGGTACTGTCACTGCCACTGGGGCTTTGATTTGGAGGAATGGGGCAGGGGACTATCTGAAGCGCTTCCATCTAA
AGCCATAATGAAAATATCTTCTCTCTTCCCCATTCTATACAAAATACTAAGTGGTTTTCTTGCTCCCACTCCCT
ACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCTTTTTTTCTTATAGTTTTTTAACTTATTG
ACTGTGCATGACCCAGTGGTTTGAATTGTTTTTAGTTCAAGTCATTGGTAAAACTAGGTTTAAAGGAGATGAGCT
ACTGTTTTAAAGTGAGCTGGCCTGCCTAATTAATTCCCTTGTGAAAACTAAATGATTTTTTTCAGTTTGGGGATCATT
CTCACAACATAACTATGCATGTAGAGGACAAGATTTATTTTCTTTTCTCCCTTGGCCAGTAGCCACATCTGGTT
TACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGACATGGTCACTTAGAGCTTATCTTCCC
TATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTCATGTTGCAGATTCACCTTTAATGCAAAGACTGTATTATCC
TCACATGACTTTTTTTCTTGCTTACTGTACCTTAAAAGGTGATAGAGTAATTCTGTATTTTCTAACGGGAAGAT
TCAAAGGAGCTGAATGTGTTATGCTTCCAACAACCTGAATGTAAAACACTCCTAGCCAGTTGTTGCATTCCCTAT
ATTTATTTACTTCCAATATTTTACTGTAAAAGTAGGGAGAAATATTATGTTGATAGTTGTTTCATATTCTCTCAG
GAACTTTAATGTTCCCGACTCGGGTGATTCCAGCTGTGTTGCTGGCAGTGTTGTCTCAACCCTCTCCCTAAAATG
ACTGAGCCCTGGGTTTCATCTAATGTGGTTTTCTTAGGAAGAGATAGAAGGCACAGAAGATCACAGCTAGAGAAT
TGAGAATTAATACTACTACTAGCCATTTTAGGGCACAAAACCTGGGATTAAACACTTCTACTTCCCACTCCCA
ACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTGTGCTTTTAATAGTCCGAGCAGTCTTACCTT
GTTTACACATGTATTGACACCATTTGCTTCAGGCCATGGAGCACTGTTTCTCCCTTTTTACTATTTATAGGATTC
CGTTTTTTCACAAGACTTTTAATAAAAAGAAATTGTAGAAATAAACACATTAAATTTGCCAGCTGTGCTCTAA
GCCCTCTTGATTGACTTGCCCAAGTGGCAATAGAGTTCTAATATCTATAATAAAGGGAGATTTGCTATTATTAGT
GGAATGTTGACCCCGTATGTAGAGAAACAGTACGTGCCTTGCCTCTTTATGCACACAGAGACCCAGGGTGAGGG
AGTATTTGTTCCAGTTTTTTAAGATAGTATAAAAAAGCAAATACTTGGTGAGTGATTTAAAAATAAAACCAAAAC
AAAACACAAAAAGATATTCCACAGGACATGCCACTTTATTATAAAACCTGACACAGGCATAGTACCAAGTATTTT
CTGCATTGTTGCTAAAATTGTTTTATTGTAGCTCCACATTCTGGTGTAGTTTAAATGCCTTTGGGGGCGAGTTTG
AAGCAGTTCCTCATGCCACTTAGTTTGAAAATAAAATTCTAGATATGCAAATGATTTTCTTAGAAAACCTTCACAA
AATAAAAGATCTTGTTTTTTTTTCCATAGCACAGTAATGAATGTGGTTATCAATCACATACTTTTTTGGATTATA
TTGTAGCAAAAAGTTGATTAGCTTACCAAGATTATTAATAGCAATGTATGTGTTATAATACAACTTAGTACATTA
AAGCTACGAAAACCTATCCTGGCTGTAGGATAGTAATAAAGGAAGAATTATGACTTCATTATGAAAAAAGAAAGT
TTTAAAGTTTTCAATTACGAGCAATTTGGAAGAAAAAACCTAAGGTGCTTTTCAAAGAGTAAGTGAATTTGTTG
CAGGCCAAAACAGCAATATGATATCTCAGATTTAGTTCAATAAGAACAGTGAAACTTTTGGTTCACTAATAAATT
CTGAGTAAATTAGTGGTGAAGACAAATATAACTTGTTTTAGTGAGCCACTGAGGAAAGAATATGCTTATTACAA
AGACAAAATGTGGTGCAGAACTATCTTGACCTGTGTGCATAAACTGTTAGTCGTGACTGACTTGGTGTGTTGC

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FIGURE 1715B

TATTGTGTTTCTATATACTCCGTCCAATATAGATAATGTTTTAATAACAACGTGGGATAAAAGTTATCTTCCCC
TTGGAAAGACTAATGAGCACAATGATATTAATCACTTTTATGGTGAATAATAAATGCAATAATTGCCTCATGGGT
GAGAAATTGTCTGTCC

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FIGURE 1716

MPRDNMASLIQRIARQACLTFRGSGGGRGASDRDAASGAEAPMQPGFPENLSKLKSLLTQLRAEDLNIAPRKATL
QPLPPNLPPVTYMHYETDGFSLGVFLLKSGTSIPLHDHFGMHGMLKVLYGTVRISCMDKLDAGGGQRPRALPPE
QQFEPPLQPREREAVRPGVLRSAEYTEASGPCILTPHRDNLHQIDAVEGPAAFLDILAPPYDPDDGRDCHYYRV
LEPVRPKEASSACDLPREVWLLETPQADDFWCEGEPYPGPKVFP

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FIGURE 1717

GGGGGAGAGGGGGCTCAAGGCGAGCGCGCCGGGCAGTTGCGGGCGCGTGGCTGCTGAGGTTGGCGGCGGTGCCGC
GCGCCCCGACGGGGCCGGTGGTTGCGGGGGCCTCCCGCCTCGACCCGGGCTGGGGGCGAGCCGTGGCGGCGCGCGGGGA
CCGCAAGGGGGCGGAGGAAAGGAGGGGGCCGGTCCCGGCACGCAGAGGAGCAGCCGACCATGCCCCGAGACAACAT
GGCCTCCTTGATCCAACGGATCGCCCGCAGGCTTGCCTCACCTTCCGGGGCAGCTGGGGCGGCGCGGCGCTTC
CGATCGCGACGCGGCTTCTGGCGCGGAGGCGCCGATGCAGCCGGGCTTCCCCGAGAACCTGAGCAAGCTGAAGAG
CCTCCTGACCCAGCTCCGCGCCGAGGACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCCAA
CCTGCCGCCAGTCACCTACATGCACATCTACGAGACGGACGGCTTCAGCCTGGGCGTGTTCCTGCTCAAGAGCGG
CACGTCCATCCCGCTGCACGACCACCCGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCGTGCGCATCAG
CTGCATGGACAAGCTAGACGCGGGCGGGCGGGCAACGGCCGCGGGCCTTGCCGCCCAGCAGCAGTTCGAGCCGCC
GCTGCAGCCCCGGGAGCGAGAAGCCGTGCGGCGGGCGTGTGCGTTCGCGGGCCGAGTACACCGAGGCCAGCGG
CCCCTGCATCCTCACACCGCACCCGGGACAACCTGCACCAGATCGACGCCGTGGAAGGGCCTGCCGCCTTCCTGGA
CATCCTGGCCCCGCCCTACGACCCGGACGATGGCCGGGACTGCCACTATTACCGGTGCTGGAGCCGGTCAGGCC
CAAGGAGGCCTCCAGCTCGGCCTGTGACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTT
CTGGTGCAGGGGAGAACCCTATCCAGGTCCCAAGGTCTTCCCTTGAAAGCCACTGGCGCCCAGGAGCGGTGGGCCG
AAGACGTGCCCTACCCCTACCACAAGGGCTGTGTCTCTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCA
GCAGCCGCTTCTCGGCAGCCTTGGAAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGCGGG
GTGGGCGGGGAGGCTAGATTGTTTCTGGTACTGTCACTGCCACTGGGGCTTTGATTGAGGAATGGGGCAGGG
GACTATCTGAAGCGCTTCCATCCTAAAGCCATAATGAAAATATCTTCTCTTCCCCATTCTATACAAAATACT
AAGTGGTTTTCTTGCTCCCACTCCCTACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCTTT
TTTTCTTATAGTTTTTTAACTTATTGACTGTGCATGACCCAGTGGTTGAATTGTTTTTAGTTCAAGTCATTGGT
AAAAACTAGGTTTAAGGAGATGAGCTACTGTTTAAAGTGAGCTGGCCTGCCTAATTAATTCTTGTGAAAATAA
ATGATTTTTTTCAGTTTGGGGATCATTCTCACAAACATAACTATGCATGTAGAGGACAAGATTTATTTTCTTCTCCTC
CCTTTGCCAGTAGCCACATCTGGTTTACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGA
CATGGTCACTTAGAGCTTATCTTCCCTATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTATGTTGCAGATTCA
CCTTTAATGCAAAGACTGTATTATCCTCATATGACTTTTTTTCTTGTCTTACTGTACCTTAAAGGTGATAGAGT
AATTCTGTATTTTCTAACGGGAAGATTCAAAGGAGCTGAATGTGTATGCTTCCAAACAACCTGAATGTAAACAC
TCCTAGCCAGTTGTTGCATTCCCTATATTTATTTACTTCCAATATTTTACTGTAAAAGTAGGGAGAAATATTATG
TTGATAGTTGTTTCATATTCTCTCAGGAACCTTAAATGTTCCCGACTCGGGTGATTCCAGCTGTGTTGCTGGCAGT
GTTGTCTCAACCTCTCCCTAAAATGACTGAGCCCTGGGTTCACTAATGTGGTTTTCTTAGGAAGAGATAGAA
GGCACAGAAGATCACAGCTAGAGAATTGAGAATTAATACTACTACTAGCCATTTTAGGGCACCAAACTTGGGAT
TAAACACTTCTTACTTCCCACTCCCAACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTTGTGCT
TTTAATAGTCCGAGCAGTCTTACCTTGTTTACACATGTATTGACACCATTTGCTTCAGGCCATGGAGCACTGTTT
CTCCCTTTTTTACTATTTATAGGATTCCGTTTTTTCACAAGACTTTTAATAAAAAGAAATTGTAGAAATAAACAC
ATTAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1718

MQPGFPENLSKLKSLLTQLRAEDLNIAPRKATLQPLPPNLPPVTYMHYETDGFSLGVFLLKSGTSIPLHDHPGM
HGMLKVLYGTVRISCMDKLDAGGGQRPRALPPEQQFEPPLOPREEREAVRPGVLRRAEYTEASGPCILTPHRDNL
HQIDAVEGPAAFLDILAPPYDPDDGRDCHYYRVLEPVRPKEASSACDLPREVWLETPQADDFWCEGEYPGPK
VFP

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FIGURE 1719

CCGGTAGCGGGTGTGGGGGCGCGAGCAGCGCAGGGCGGCCTCTCCCCACCCCTCAGCCCGGGCCCCGGGCTCGGT
CCCCCTCTCCCTCCGCTTCGCACTCCCGTCGGGTACGGGAAGGTCCAAGCCGCTGCCGGGTGCCGAGGGCCGT
CGTGGCCGCCGTCGCCACGGGTCCCAATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGT
CCAAAGGCCTGGCCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACCTGGAAGGCATCTGGCACACATCCATAG
TTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCGGGAGGGACATTGCTTGGGC
CTCCAGACTCTGTGGTTGATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCCCTGG
GGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCAC
AGTTCCTGACTGGGCGGAAGATTCTTCTTACATCACAGACCTGCCCTCTGAAGTTCTCTCCACGCCCTTTGGAC
AGGCACTTCGGCCCCCTCCTGGACTCCATTAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGCAGACCCAACGGCC
AGAGCTAAACAGGACTGCCTGGGACCGCCCTGCCTCACCAGGGCTTTTCCTTTTTTAAACAAAACAAACCCTACCAG
ATTTCTATTTTATAATTTTACATCAGAGCTAACAACCAGGGGACGGCTTTTAAATTTCCAGGGAAGGAGACCG
TCAGGCCGCATGTAGACAATGCTGCTAAGAAACAGAACAAAATGCCACCCCTTCTAATAGTATTATACTAATTTA
TTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1720

GSGCGGASSAGRPLPHPSARARARSPLSLRFALPSGTGRSKPLPGARGPSWPPSPRVPMEPNLYPVKLYVYDLS
KGLARRLSPIMLGKQLEGIWHTSIVVHKDEFFFGSGGISSCPPGGTLLGPPDSVVDVGSTEVTEEIFLEYLSSLG
ESLFRGEAYNLFEHNCNTFSNEVAQFLTGRKIPSYITDLPSEVLSTPFGQALRPLLDISIQIQPPGGSSVGRPNGQ
S

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FIGURE 1721

GAGCGCGCGGGCGCTACTAGCCGCGGGGGCCAGGCGCCTGGCTTCTTACTGCGGGCTTCATACTGAGGGCCCAGCC
GAGGCGGCGCGGGTGCAGGAGCAGGACTTACGGCAGTGGGGGCTGACAGGGATTACCTACGCTCTTACCAGCTG
GAGGGAGTAAACTGGCTCGCCCAGCGCTTCCATTGTGAGAATGGCTGTATCCTGGGAGATGAGATGGGCCTGGGG
AAGACCTGCCAGACTATTGCTCTCTTCATTTATTTGGCAGGAAGATTAAATGATGAAGGGCCATTTCTGATTCTT
TGTCCCTTGTCTGTTTTGAGCAACTGGAAGAAGAAATGCAGAGATTGCTCCAGGTCTTTCCTGTGTAACATAT
GCAGGCGACAAGGAGGAAAGAGCCTGCCTTCAGCAAGACCTGAAACAGGAGTCACGTTTTTCATGTGCTACTGACT
ACCTATGAGATTTGCTTGAAAGATGCATCATTTCTAAATCATTCCCTTGGAGTGTTCTTGTTGTGGATGAAGCT
CACAGGTTGAAAAACCAAGCTCCCTGCTGCATAAGACCTTGTGAGAGTTCTCAGTAGTCTTCAGTCTCCTGTTG
ACCGGAACCTCCCATCCAGAACAGCCTCCAAGAGCTCTACTCCCTCCTCAGTTTTGTGGAGCCTGATCTCTTTTCC
AAGGAAGAGGTGGGAGATTTTATTCAACGCTACCAGGATATTGAGAAAGAATCTGAGTCAGCAAGTGAAGTGCAC
AAACTCTTGACGCCATTTCTGCTGAGGCGAGTGAAAGCTGAGGTAGCTACAGAGCTTCCCAAGAAGACAGAAGTA
GTGATATACCATGGCATGTGAGCATTGCAGAAGAAATACTACAAGGCCATTTTGATGAAAGACCTAGATGCATTT
GAAAATGAGACGGCAAAGAAAGTTAACTACAGAACATTTTGTCCCAGCTTCGAAAGTGTGTGGATCACCCATAT
TTGTTTGATGGTGTGGAGCCGGAGCCTTTTGAAGTTGGAGACCACCTGACTGAGGCTAGTGGGAAGCTTCACCTG
CTGGATAAGCTACTAGCATTCCTGTATTCTGGGGGCCATCGGGTTTTACTTTTTCTCCCAAATGACCCAGATGTTG
GATATTCTCCAAGACTATATGGATTACAGAGGCTACAGCTATGAGCGTGTGGATGGTTCTGTGAGAGGAGAAGAG
AGACACTTGGCCATTAAGAACTTTGGACAGCAGCCATTTTCGTTTTTCTCCTGAGTACTAGGGCAGGTGGAGTT
GGCATGAACCTTAACAGCAGCAGATACTGTGATTTTTGTTGACAGTGACTTTAATCCTCAGAATGACTTGCAAGCA
GCTGCCAGGGCTCATCGCATTGGCCAAAACAAGTCTGTAAAGTTATTCGGCTGATTGGTCGAGACACTGTGGAA
GAAATAGTCTATAGGAAAGCAGCCTCCAACTGCAGCTCACCAACATGATCATAGAAGGAGGCCATTTTACTCTG
GGAGCCCAAAAACCGCTGCCGATGCTGACCTCCAGTTGAGTGAGATACTCAAATTTGGTTTGGATAAACTGCTG
GCCTCTGAGGGGAGCACCATGGATGAAATAGACCTGGAGTCCATCCTGGGAGAAACAAAAGATGGCCAGTGGGTC
TCTGATGCCTTGCTGACGAGAGAAGGAGGGAGCAGAGATCAAGAGGAAGGAAAAATCATATGTACTTATTTGAA
GGTAAAGATTATTCTAAAGAGCCAGTAAGGAAGACAGAAAAATCATTGAAACAAGTGGTAAACCTTCAGAAAAAC
CTTTTGGAGAAAAGCTAGTCAAGAGGGCCGATCACTCCGAAATAAAGGCAGTGTTCTCATCCCAGGCCTTGTGGAG
GGATCTACCAAAAGGAAGCGGGTTCTGAGTCCAGAAGAGCTGGAGGACAGACAGAAGAAAAGACAAGAAGCAGCT
GCCAAGAGAAGGAGACTCATAGAGGAGAAGAAGAGGCCAAAAGGAAGAGGCTGAACATAAGAAAAAGATGGCCTGG
TGGGAATCCAACAATTACCAGTCCTTCTGCCTGCCCTCTGAGGAGAGCGAGCCAGAGGACCTTGAGAATGGGGAA
GAGAGCTCTGCTGAGCTGGATTACCAAGACCCAGATGCTACTTCCCTCAAGTACGTTAGTGGTGATGTACCCAC
CCTCAGGCTGGGGCCGAGGATGCTCTCATTGTGCACTGCGTAGATGACTGTGGCCACTGGGGCAGAGGTGGTTTA
TTTACAGCTCTGGAAGCGATCCGCTGAGCCAAGAAAAATATATGAGCTGGCTGGGAAAATGAAAGACCTGAGT
TTGGGAGGTGTCCTTTTATTTCTGTTGATGATAAAGAATCAAGAAACAAGGGCAAGATTTGTTGGCCTTGATT
GTGGCTCAGCATCGTGATCGTTCCAATGTCTGTCTGGCATTAAAGATGGCAGCCCTAGAAGAGGGCCTGAAGAAG
ATATTTTACGAGCAAAAAAGAAGAAAGCAAGTGTTCATCTCCACGTATTGGACATGCCACGAAAGGTTTTAAC
TGGTATGGTACTGAGCGACTTATTCGGAACATCTGGCTGCAAGAGGCATCCCACTTACATATATTATTTTCT
AGAAGCAAGTCTGCTGTCCTTCATTACAGTCTTCATCTTCTCCTCAAGACAGCTGGTGCCTTAAAGAATTGGCC
CAGCCTCAGATCCTGTCTTTAGCAACCAGCTAATATTTACCCAGAGGTACTGCAATAGAGTATTTCAAAATGGAA
TCAGGATCTGGTGGGCCTCAGAAATTGTCTCTTTTCTGAGTTTCAGTTTGTTTCTCCTGGATGTTTTGCTCTGTT
TTGGTACCTGTAATATAGGGAAACACAACTTTTTTTGGGAAAGCCCTTGACCCAGCTTGCTAGTTGCATAATA
ATAAATTTTCTGTTCTAATGGTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1722

ERAGATSRGGQAPGFLLRLHTEGPAAEARVQEQDLRQWGLTGIHLRSYQLEGVNWLAQRFHCQNGCILGDEMGLG
KTCQTIALFIYLAGRLNDEGPFLILCPLSVLSNWKEEMQRFAPGLSCVTYAGDKEERACLQODLKQESRFHVLLT
TYEICLKDASFLKSFPWSVLVVDEAHLKKNQSSLLHKTLEFSVVFSLLLTGTPIONSLQELYSLLSFVEPDLS
KEEVGDFIQRYQDIEKESESASELHKLLQPFLRRVKAEVATELPKKTEVVIYHGMSALQKKYYKAILMKDLDAF
ENETAKKVKLQNILSQLRKCVDPYLFDFGVEPEPFEVGDHLTEASGKLHLLDKLLAFLYSGGHRVLLFSQMTQML
DILQDYMDYRGYSYERVDGSGRGEERHLAIKNFGQQP IFVFLLSTRAGGVGMNLTAADTVIFVDSDFNPQNDLQA
AARAHRIQNKSVKVIRLIGRDTVEEIVYRKAASKLQLTNMIEGGHFTLGAQKPAADADLQLSEILKFGLDKLL
ASEGSTMDIDLESILGETKDGQWVSDALPAAEGGSRDQEEGKNHMYLFEGKDYSKEPSKEDRKSFEQLVNLQKT
LLEKASQEGRSLRNKGSVLIPGLVEGSTKRKRVLSPPELEDRQKKRQEAAAKRRRLIEEKKRQKEEAHKKKMAW
WESNNYQSFCLPSESEPEDLENGEESSAELDYQDPDATSLKYVSGDVTHPQAGAEDALIVHCVDDCGHWGRGGL
FTALEKRSAEPRKIYELAGMKDLSLGGVLLFPVDDKESRNGQDLLALIVAQHRDRSNVLSGIKMAALEEGLKK
IFLAAKKKKASVHLPRIGHATKGFNWYGTERRLIRKHLAARGIPTYYFYFPRSKSAVLHSQSSSSSSRQLVP

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FIGURE 1723

GGCACGAGGCTACCCCTTTGCTGCCTTAAACTTGCTTTTCTAGATCCTGATACTGGTAAACTGACTGGCGGATCAT
TTACCATGAAATACCATGATATGCCTGACGTTATAGATTTCTAGTCTTGAGACAACAATTTGATGATGCAAAAT
ACAGGCGATGGAATATAGGTGACCGCTTCAGGTCTGTCTATAGATGATGCCTGGTGGTTTTGGAACAATCGAAAGCC
AGGAACCTCTTCAACCTGAGTACCCTGATAGTCTGTTTCAATGCTACAATGTTTGCTGGGACAATGGAGATACAG
AAAAGATGAGTCCCTGGGATATGGAGCTTATACCTAATAATGCTGTATTTCTGAAGAACTAGGTACCAGTGTTT
CTTTAACTGATGGTGAGTGCAGATCACTAATCTATAAACCTCTTGATGGAGAATGGGGTACCAATCCCAGGGATG
AAGAATGTGAAAGAATTGTGGCAGGAATAAACAGTTGATGACACTAGATATTGCCTCAGCATTTGTGGCCCCCG
TGGATCTGCAAGCCTATCCCATGTATTGCACAGTAGTGGCATATCCAACGGATCTAAGTACAATTAACAAAGAC
TGGAAAACAGGTTTTACAGGCGGGTTTTCTTCCCTAATGTGGGAAGTTTCGATATATAGAGCATAATACACGAACAT
TTAATGAGCCTGGAAGCCCTATTGTGAAATCTGCTAAATTCGTGACTGATCTTCTTCTACATTTTATAAAGGATC
AGACTTGTTATAACATAATTCCACTTTATAATTCAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGATGAAGAGA
AAGATGCTGATGTGCCAGGAACCTTCTACTCGAAAAAGGAAGGACCATCAGCCTAGAAGAAGATTACGTAATAGAG
CCCAGTCTTACGATATTCAAGCATGGAAGAAACAGTGTGAAGAATTGTTAAATCTCATATTTCAATGTGAAGATT
CAGAGCCTTTCCGTCAGCCGGTAGATCTCCTTGAATATCCAGACTACAGAGACATCATTGACACTCCAATGGATT
TTGCTACCGTTAGAGAACTTTAGAGGCTGGGAATTATGAGTCACCAATGGAGTTATGTAAAGATGTCAGACTTA
TTTTTCAGTAATTCCAAAGCATATACACCAAGCAAAAGATCAAGGATTTACAGCATGAGTTTGCCTTGTCTGCAT
TCTTTGAAGAACACATTAGTTTCAGTTTTATCAGATTATAAATCTGCTCTTCGTTTTTCATAAAAGAAATACCATAA
CCAAAAGGAGGAAGAAAAGAAACAGAAGCAGCTCTGTTTCCAGTAGTGCTGCATCAAGCCCTGAAAGGAAAAAAA
GGATCTTAAAAACCCAGCTAAAATCAGAAAGCTCTACCTCTGCATTCTCTACACCTACACGATCAATACCGCCAA
GACACAATGCTGCTCAGATAAACGGTAAAACAGAATCTAGTTCTGTGGTTCGAACCAGAAGCAACCGAGTGGTTG
TAGATCCAGTTGTCTGCTGAGCAACCATCTACTTCTTCAGCTGCAAAGACTTTTATTACAAAAGCTAATGCATCTG
CAATACCAGGGAACAATACTAGAGAATTCTGTGAAACATTCCAAAGCTTTGAATACTCTTTCCAGTCTCTGGTC
AATCCAGTTTTAGTCATGGCACTAGGAATAATTCTGCAAAAAGAAAACATGGAAAAGGAAAAGCCAGTCAAAACGTA
AAATGAAGTCATCTGTACTCCCAAAGGCGTCCACTCTTTCAAAGTCATCAGCTGTCTATTGAGCAAGGAGATTGTA
AGAACAACGCTCTTGTACCAGGAACCATTCAGTAAATGGCCATGGAGGACAGCCATCAAAACTTGTGAAGAGGG
GACCTGGAAGGAAACCTAAAGTAGAAGTTAATACCAATAGTGGTGAAATTATACACAAGAAAAGGGGTAGAAAGC
CCAAAAGCTACAGTATGCAAAGCCAGAAGATTTAGAGCAAAATAATGTGCATCCCATCAGAGATGAAGTACTTC
CTTCTTCAACATGCAATTTTCTTTCTGAACTAATAATGTAAAGGAAGATTTGTTACAGAAAAAGAATCGTGGAG
GTAGGAAGCCCAAAAGGAAGATGAAGACACAAAAATTAGATGCAGATCTCCTAGTCCCTGCAAGTGTCAAAGTGT
TAAGGAGAAGTAACCGAAAAAAGATAGATGATCCTATAGATGAGGAAGAAGAGTTTGAAGAACTCAAAGGCTCTG
AACCCACATGAGAACTAGAAATCAAGGTCGAAGGACAGCTTTCTATAATGAGGATGACTCTGAAGAGGAGCAAA
GGCAGCTGTTGTTTCGAAGACACCTCTTTAACTTTTGGAACTTCTAGTAGAGGACGAGTCCGAAAGTTGACTGAAA
AAGCAAAAGCTAATTTAATTGGTTGGTAACTTGTACCAAAATATTTTACTTCAAAATCTATAAAGCAGGTACAGT
TAAGGAATAAGTAGAACTAAGGCTTCTGCTTCTGCTGCTGTGGTGGAGTAGGGAATGTTATGATTTGATTTGC
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1724

MSPWDMELIPNNAVFPEELGTSVPLTDGECRSLIYKPLDGEWGTNPRDEECERIVAGINQLMTLDIASAFVAPVD
LQAYPMYCTVVAYPTDLSTIKQRLNRFYRRVSSLMWEVRYIEHNTRTFNEPGSPIVKSASFVTDLLLHF IKDQT
CYNIIPLYNSMKKKVLSDEDEEKDADVPGTSTRKRKDHQPRRRLRNRAQSYDIQAWKKQCEELLNLIFQCEDSE
PFRQPVDDLLEYPDYRDIIDTPMDFATVRETLEAGNYESPMELCKDVRLIFSNSKAYTPSKRSRIYSMSLRLSAFF
EEHISVLSDYKSALRFHKRNTITKRRKKRNRSSSVSSSAASSPERKKRILKPQLKSESSTSAFSTPTRSIPPRH
NAAQINGKTESSSVVTRSNRVVVDPVVTEQPSTSSAAKTFITKANASAIPGKTILENSVKHASKALNTLSSPGQS
SFSGTRNNSAKENMEKEKPVKRKMSSVLPKASTLSKSSAVIEQGDCKNNALVPGTIQVNGHGGQPSKLVKRGF
GRKPKVEVNTNSGEIIHKKRGRKPKKLQYAKPEDLEQNNVHP IRDEVLPSSTCNFLSETNNVKEDLLQKKNRGGR
KPKRKMKTQKLDADLLVPASVKVLRNRKKIDDPIDEEEEFEELKGSEPHMRTRNQGRRTAFYNEDDSEEEQRQ
LLFEDTSLTFGTSSRGRVRKLTEKAKANLIGW

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FIGURE 1725

GGCACGAGGGCGGACGGGCGGACTGACGGGCGCCTCCACCTTGCTCCCTCCCTGGCTGCCGGCTTCCTTTTGTCT
TTCTGGGCGGCGATGAGCGCAGGGCCGGCGCAGCAGCTGCGGGCGCACGGAGGCCCGCGCTGCTAGTCACTCCTC
CCGGCCTCGGCGCGCTTGCTCCCGGGCAGCGGCCCGGGCCCGCTGCAGCCGCCGCCGGCGCCGAACCTTGGGCTCGG
GAAGCCGGCGGACCGCGTCTGCGCCGGAGCAGGGGCATGGTCTAGTGGCCAGTCAGGACGCGGAAACACTCCC
TGGAGGTTCTGACCCGCTCCCTCTCAGCCTCCGCTGGTCTCTGGTGTAGTCGCCGCCGCCAGCCGCCATGGGCA
AACAGAACAGCAAGCTGCGGCCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTACCGACCACGAGCTGC
AGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCCCACGGCCACCTGACCGTGGACGAGTTCAAGAAGATCTACG
CCAACCTTCTTCCCTACGGCGACGCTTCCAAGTTGCGCGAGCACGTCTTCCGCACCTTCGACACCAACGGCGACG
GCACCATCGACTTCGGGAGTTCATCATTGCGCTGAGCGTGACCTCGCGGGGCAAGCTGGAGCAGAAGCTCAAGT
GGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAGCCGCAGCGAGATGCTGGAGATCGTGCAGGCCA
TCTACAAGATGGTGTCGTCTGTGATGAAGATGCCGGAGGATGAGTCCACCCCGGAGAAGCGCACAGACAAGATCT
TCAGGCAGATGGACACCAACAATGACGGCAAACCTGTCTTGGAAGAATTTCATCAGAGGTGCCAAGAGCGACCCCT
CCATCGTCCGCCTGCTGCAGTGCAGCCCCAGCAGTGCCAGTCAGTTCTTGAGCGAGCGGGCCCTGGACAGTTGCAG
AGAAACACAGGCTTGTCTGTCCGTTTAAGCTTTGCTTGCAAGAGTGGATGCCCCGCAATCGTTTCTGCTCTCCCG
GGCCCCGGGCTTGGGGCATGCGTTGCACCTGCCCCGGCCCGGTGGCTGCGCCTCCCTCCTCCACCTGACCAACGCG
ACATTCTCCCTCACGCCTGGCCCGGTCCCTTCCAGGGCAACTCCCAGGGATGTGGTGACATGCAGGGTTCAAG
TGTTCTTGGTTCCAGGCACCTCCCGGCTCACGGGGAGCTCAGAGGTCCATGCCGAGGAGACCAGGCAGGACCTCC
CGAGGCTGCGCCCCGGCCGGCCCATGCGTTTTGTGATCCCAAGTGACTCTGTGGGAAGGGTGGGGACGAGGCGTC
GGGAGGGTATACAGGGAGCCCCCTCCCGTGATGGCTGCCCCCCCCGTTTCAATTTCTCCACCACAGCCGCTTGCACG
TATAGATACTGTGGTCCCCCTTTCTTTTAATATATAAAATTATGTATGGTGAAGTGGAGTGTATTGTGTAGGTCCCCG
TATTTAATGCCTCTGACTGCCTTTGAAGCGCAGCCCTCTGTGGCCCGCAGCCCCCTGAGCCTGGCTGTTGTGTGG
TATTTATGCTCTCTTTGTCTGCCTGTTTCTAAGGAAATGCATGTGTGCCCTGAGCCGTGATGATCCTCCCATCCG
TGTTGTGAGCACAGGCATTGTGTCTGGTCTGTCTCCCTGTTGATTGGTCTGGCATTTCGGGTATTAAAAATGAT
AAAAATAATGGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1726

MGKQNSKLRPEVLQDLRENTFTDHELQEWYKGFLKDCPTGHLTVDEFKKIYANFFPYGDASKFAEHVFRFTDTN
GDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLGNGYISRSEMLEIVQAIYKMVSSVMKMPEDSTPEKRTD
KIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

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FIGURE 1727A

TTGCTGCGTCAACTGTGTTCCCTTTGGCCTGGCTGAGTTTGATACTGTGGGGATTTCAGTTTAGGCGCTGGCCCGA
GGATATCCCAGCGGTGGTACTTCGGAGACACCTGTCTGCATCTGACTGAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCCTGGCGGCGGCGCCACCTGCAGTAGCGTTTCGCCCCAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCCGTTTCTATTACCCCTGGTCGCACTGCTGCCGCCCCGGAGCTCTCTGCGAAGTCTGGACGCAGAGGC
TGCACGGCGGCGAGCGCGCCCTTGCCCCAGGACCGGGGCTTCCTCGTGGTGCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCCGAGCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCCCAATCAGATGGTGGTGCAGTGGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGCCCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAAAATCATTCAAGAAAATTTAGACAAAGTTAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCAGTTCTACCACAGCCCTGCGGACAACAAGCGGTACATCTTTCAGACGCTTATGCC
AGTACCTCTGGATCAGTTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCATTTTCGGGCAGCTGATCTCC
TCCTACACAGTAAGGCCCTCAACCTTCTCTTGGGCTTTGACAGGTCCCACCCCAACAAGCAGCTGTGGAAGTCAG
ATGACTTTTGGCCAGACCTGGATCATGATTAGGAACATGTCAAGTCTTTTCTTGGGGAATTGATCCCTATGACA
AACCAAATACCATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTTCTTCC
AGTCCCGGGGAAAACCAGGAAGTGATCCTTGAGGAAGTGAGAGATTTTCAGCTTCGGGACAAGTACATGTTTGCTA
CAAAGGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCA
TGAGAGCAGCCCAGTTTGTACAAGACATCCTATTAATGAATATTACATCGCAGATGCCTCCGAGGACCAGGTGT
TTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCCGCGCAGTGACACCTTGGTGAGGTATTTTGAAATGAAC
CATTTGCTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAATGGTTCTATGAATG
AGGAGAACATGAGATCGGTCAACCTTTGACAAAAGGGGGAACTGGGAGTTTCTTCAGGCTCCAGCCTTCACGG
GATATGGAGAGAAAATCAATTGTGAGCTTTCCAGGGCTGTTCCTTCATCTGGCTCAGCGCCTCAGTCAGCTCC
TCAACCTCCAGCTCCGGAGAATGCCCATCCTGTCCAAGGAGTCGGCTCCAGGCCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACACATGGGGAGACCACGGCGGAATCATCACGGCCATTGCCAGGGCATGGAAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAAAACATTCTCTCTGAGAAGCCAGTGTTTGTGTATG
GCCTCCTCACAGAACCTGGGGAGAAGAGCACTGTCTTCACCATCTTTGGCTCGAACAAAGAGAATGTCCACAGCT
GGCTGATCCTCCAGGTCAATGCCACGGATGCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCAC
CATCTGATGAGCGGGGAATGAGTGTTTGTCTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCCGGTGGTTCGTGTCCAAGTCTCCTGCACCCGGGAGGACTATGAGTGTG
ACTTCGGTTTCAAGATGAGTGAAGATTTGTCAATAGAGGTTTGTGTTCCAGATCCGGAATTTTCTGGAAAGTCAT
ACTCCCCCTCTGTGCCTTGCCCTGTGGGTTCTACTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTTGTAGCGGAGGAGATGTTGAAGCGGCACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCTCTCA
CCGGGCTACGGGCAGCAGTGGCCCTGGACTTTGACTATGAGCACAACTGTTTGTATTGGTCCGACCTGGCCTTGG
ACGTCATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCCCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCCTCGTGC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTTATCGGAGCAATATGGATGGTT
CTGCTGCCATACCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCAGTGGATTTACT
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCACGTTTCTGAGTGGCCAGCAGCGCTCTGTCAATTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTTCACAGCTCAGCATATTC
GAGCTTCCAAATACAGTGGGTCCCAGATGGAGATTCTGGCAAACCAGCTCACGGGGCTCATGGACATGAAGATTT
TCTACAAGGGGAAGAACACTGGAAGCAATGCCTGTGTGCCAGGCCATGCAGCCTGCTGTGCCTGCCCCAAGGCCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCAGTATCGCT
GCAGCAACGGGAAGTGTATCAACAGCATTGTTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT

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FIGURE 1727B

CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA
GTGACGAGTACAACCTGCAGTTCCGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGATGAAGCCAACCTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC
ACTGCATCCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCCCAACGGCACTTGATCCCATCCAGCAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCCCTCTGTACGCACTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCCACAAGGTATGTGATGAGTTCCGGTTTCCAGTGTCAGAATG
GAGTGTGCATCAGTTTGATTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACCTGCG
AAAACCCACAGAAGCCCCAACTGCTCCCGCTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACAA
GATGGAATGTGACAGGGAGAACGACTGTGGGGACTGGTCTGATGAGAAGGATTGTGGAGATTCACATATTTCTTC
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA
CTGCTGCCTCCACTCCCACCAACTTGGGCGATGTGACCGATTTGASTTGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAAATGCCCTCTGCAT
CTTGTGTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAAGTCTTGAAACCAGATACCACGTATCAGGTTAAAGTACAGGTTTCAAGTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCCTGAGGACCCAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCCATCCACACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCCTCCAGAGGGCTGCTAGTAACTTTACAGAAA
TCAAGAACTTATTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAAGTGATCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAAATTATCTAAGCTTACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTTGACACCCACAAGCAAGAGAGGAGAACCTTTGAACTTCCGAGGAAGCATATTGTACACAAAAGTTGGCAATC
TGACAGCTCATACTCCTATGAGATTTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGAGC
ATGTTATGACCAGAGGGGTTTCGCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGGAAT
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACGGTTCATTGTGAGTAAGGATGAGCAGTATTTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACCTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTTCATCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAATCCC
GTAACAGCACTGTGGAATACACCCTTAACAAGTTGGAGCCTGGCGGGAAATACCACATCATTGTCCAACCTGGGGA
ACATGAGCAAAGATTCCAGCATAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAATGAAAGCAGGGGCTATG
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTT
CCAACCTGAAGATGGGTCTAATTACACGTTACCGTCCAAGCAAGATGCCTTTTGGCAACCAGATCTGTGGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGCAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGGCCATCTTATTCCTGATACTGCTGAGCCTGGGGTGGGGTTTGCCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTATGATAACTGGATTTTTCAGATGACGTCC
CCATGGTGATAGCC**TGA**AAGAGCTTTTCTCACTAGAAAACCAATGGTGTAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAGATGCACCTTGAGTTGCAATATGTTATTTTATATGGGCCAAAAACNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNGAATGAATAAACTTTGTAGTAATCAACTGTGAACCTCAAACCAGGTTGATTTTA
GTAACCCAATTGCTTTGATTTGACATTAATGTAGTCTTACAGGGCTGTGCTTGCTGGGCATGCTTTTACGTCTGT
GAGATAATTTCCGTTTCAGTAAATTGGCCAATCTTTTTATTTTCTAAGACACAGAAATGTATTTAATAAAAAACCT

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FIGURE 1727C

CGAGAGAGTGATGGGTGGAACCCCTTCTCCTTGAAAGTGTGTACAGATATTCCATTTTGTGGATATAGTTTAT
AGGAAAGTGTGTGGATGTATTATGGCGGAAGGTTTCTTTATGTTATTTTGTAAATTTATTGGGACTCTGTGTAAG
GCCAGGCTTTAGTGGTCATTAGACACCACATGTGTTATGAGCCCCCTTACCCATAGGGTTGGGGGTGGGAAGAGAA
GCATATTTTTTTTGGCATTCCGGAAGCAATCCATTTTTATTCACTTGTGTGTCATGTAATGGTCTTTGGCAGGAGA
GAGCACTGAGTCATTGCTGGAGTTCAGTTCAACAGAGCTGCAGCTTGGGAAGCCCTGTAAGCCCACAGCTTCCTC
TCTTATATTAATTGATGGAATTTTACTGTATGTGCCTCTGTACAAGATGTAGCTTTGAGAGCTACAAAATGATAA
CACTGCTTTTATTACACACTGGTTTCATTGTCAATTGCAAAAACCTTACCCTGGTTGTGGGGGAGAGTTCTAGATCTG
TGCCATGATCCATACACTGGCTAATAGAGTACATAATTTTTCCATTTTCCATTTTTTGTTTTTACTTACTACTGA
AGGATCTCAGATGTAAAATTATGTATTTGGTTTGAGATGGCCACTTATTGTCCTTAAAAATCCATACTGATATAT
GCAGTCATTTTGAATTGGACAGTGCCTTCTCTTTTTTTTTCTCCTCTTCTCCATCTCCCTCACCCATGCCCCCA
CCCAATCTAAAGAGACAGTGTGTACATTCTCATAGAGATAGAGAAGATCTAAAAAGTTGAGACTACTCAATCCA
GTTAACAACAGCAGGAGCACTAGAGTTTGTTCAATTTATTCTCTCTGTAAAACAAGCTGTGCTTTTTTTCTTCTGC
CTTTAAAAATGCCACCCGTGTATTCAAACCATGGCCACTTGATACTTATGTAGAATCCATCGTGGGCTGATGCAAG
CCCTTTATTTAGGCTTAGTGTGTGGGCACCAATGTGAGCATCGTTGTGACTTGTGCTGTATGATTCTCACTGA
AGAATTTCTTTTCAGCCAAGAAGCAGTGAGGTCTGGGAATATTCCAAAGTCATGTCTCTGAATATGTGTCTTGA
CGTGCAAGCTTTGTAAAACCCCATCCCCGCTTAGGTGCGAGGCATCACCTTCTCACAAGTGTTTAGTTTCTTTTA
ACCACAAGTATCATTCTTGGGTGATAATATAGTTTCAATTCTACTTAGGGATTGTTTAGAAAACAAAGAAAGAGCC
AATTAATTTTTTTAGTTTTTTGAAATTTTTATTTATATGTATACTTAGATGAGTATTTTAAGCTGTGACCTTTAG
TTTGCCATACGGGTAGGACTGTATTTTCATGTTAACAACCTGGTGGTAATGATAAGCCTTCTTCTAGCGTATTTTCT
CTTCTTTCTGTCACTTTTCTAAGTTTTTTTTTTTTTAAAGACTGGAATTTTTTTTTGGCTTTATCTTGTCTTACCGT
AGAGATTTGTTTCAAACTCTAAGCCCTACCACCTCCCCTTTAATAAGCTCTTTAATAGTTGAATCATTAACAAC
CTGGTGGGAGGCAAGTCATTTAATTGAACCACTAGGAAGTGATTTTTCTTTCTTTTTCTGCCAACTTTTTGGTG
GCATTTGTAAAAGCTGATATAAAAGGCTCTGAGATGTTATTTTCAGTTATTCCATAGGCAAGCCTTTTTACAGAG
CATATGTCTCCAGTTGGCAGCTTGAGATATTTCCGAGCATCCGGTTCTAGCTACCAGTGCCTCCCAATGCTTAGT
GCACAGTACTGTAGACTGGCCATCACCCCTCTCCTTGGAAAAATGCCACTGTGCTGTTTGAAAAAAGCAGCCTTT
TAGGGCTAGAGTATTTTTATATAAACAGAAGAGCTAAGTTCTGAAGACTAAGCTAGATAGCTGCAGCTATATGTA
AATTGTATATTTTTATGAACTTTTGAAGCACACACTCCTGTTTCCCTCTGTGTAGCTTTGTGGGGATTTCATGTA
TATATGCTGTCTGAAAGAATCCAGAGGTTGGAGTGCCAATAGAAAATGAAAACAAATGCCTTGTACTACAGGCAG
CCTCTGAAGGTGACCACATAACTGTCTTCACTGTGACCAATCGGAGTCCCTGCTTGCTTGTGAAGAAGGGGCTTT
TGTACCTTGTGGAGATGCCACCTCAGAAGTTCACACTGTGCAGGAAAAAGGTTTTATTCTCTCCTGGCATAACAT
TAGAATGTCAGATGCCTGCATCCATGTGGACCACGATGGGCCTCTAAAAATTGGTGGGCAGGGGGTTTTGCTTATG
AGTTTTCTCTGGAAACCGATTTTACTCCTGGATGTATTGAATGCCCTTGAGCTTTATGAGATACGAGTCCACAT
GGATAAAATGTTAGAGAGTGGAGTTCTACAGAGGATTCCAGGAAGAGGCCATGTCTGTGCAGTCCTAGTTCAGA
CAGGTGAGAAGCTCCAGGAACCTACTGGCTACCTTGACAAGCTGGGTAAATAGTTATCATTCTGGGTAACCTGGTTG
AAACTCTGACTTTTTGGACAAGTAATTCCTGGGGTCTGTCTTTGGTAGCATCACCAGGGATATTTGGGTGGGACA
GACAGAAGACACACAGCTGCCTGTTCTCTCCTGCCCATCATGTTTGGCCCACTAGATGAAGCTGTACTCAGCAAT
TTAGGGAATGTAACCCCTTCTCAGAACTGGCCATTTTCAGGGGAAGCTTGGGAGAGCAATAGTATGGTGAGCCCCCT
TAGAGATGAGCGCCTACTCCTTCTTGGCGAATGCTGCCTTCAGATGCTTACCAAGTGGTCACTGCATCTAGTAAG
ATTATATTTCCAGTACACTTCCTTAGGGCAGAAACACCATCCTATCAGGTTTGGTCACTCCCTTCTTCATGAAGG
GAGTCATGGGGAATTCCTGAAAATTTTCTTCTCTGACAGACAGTTGGATGAGTCCCTTAGAGAAGGCATCCAGA
GACATAACTAACTGAATATCATCCCATATTGATTTTAGGAATTGACTCTAAAACCTCTGTGCAGAACTTGTGTT
GGGATTGTATCTTGACATTCTGTTGTGTTATTTTTCTTAACTGGAGTGTGTGCTGCCTTTTCAAGGTACAAATTTT
GTGTAATAAAAGCCAGTGCATTAAGTTTATATAGACTACTTTCTATGCAAGACTGAGATATGGAATAGATAGGAA
GAGATATGTACTGCTGGGTACATGGACAGTAAGTGTGTTTTTTCAGATGGAGTACCAGCACCGAAAAATGGGTGAGG
GAGGATGGGTGTATGTATGTTTCTGCCCCACTAATTTTGGAGCAGCCATATTATGAATTAATCGTCACAGCCAAAG
TAATAACCCAAGAATGGTATGAGTTTCATGTGTAATAGCTCAAATGGAATAAGCATGAATGCTGGAGTGGACCAT
TATCCTCAAATATTCTATGTCACTTCTCATTTAAAGACTCTTGTTATGAACATATTAGAACTTTAGGCCAAAATCA
AAAGTATTTGCGGCAAAATAAAGGCCTATTCTACTCTTATTTAAAGTGAAACACTGTATACTTGTCTCTCCAA

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FIGURE 1727D

AGCGAAATTAAGTATTTATAATTTCAATTGCCTCGATAAGTTTCCAAGTCACTGAAATCTGCTGAAGGTTTTACT
GTATTGTTGCACAACCTTTAAGATAATTTTTGTCTCAATGTCAACTTTTTTCACTGAATAAAAAATTTAACTGGGTC
AAGAAAACACCTCTTTGAAAATCCACTGTCTCTGTGTGTCTCGAGCTGTTCTTTAGAGCGCAATAAAGATGGCTG
ACGCAGTCTCCAAACCC

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FIGURE 1728

AASTVFPLAWLSLILWGFSLGAGPRISQRWYFGDTCLHLTEPALLASRCTFSPGGGATCSSVRPNMATRSSRRES
RLPFLFTLVALLPALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEKPLRRKRSAL
QPEPIKVYQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPKSSDVYVSYDYGKSFKKISDKLNFGLGNRS
EAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGFSSIPFRAADLLLHASKASNLLLGFDRSHPNKQLWKS
DFGQTWIMIQEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFQSRNQEVILEEVRDFQLRDKYMFAT
KVVHLLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVFVSVSHSNNRTNLYISEAEGLKFSLS
LENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPFTG
YGEKINCELSQGCSLHLAQRLSOLLNLQLRRMPLSKESAPGLIATGSGVGNLASKTNVYISSSAGARWREALP
GPHYTTWGDHGGIITAIQAQGMETNELKYSTNEGETWKTFFIFSEKPVFVYGLLTPGEKSTVFTIFGSNKENVH
LILQVNATDALGVPCCTENDYKLWSPSDERGNECLLGHKTIVFKRRTPHATCFNGEDFDRPVVSVNCSCTREDYEC
FGFKMSEDLSLEVCVPDPEFSGKSYSPVPCPVGSTYRRTRGYRKISGDTCSGGDVEARLEGEVLVPCPLAEENE
ILYAVRKSIIYRYDLASGATEQLPLTGLRAAVALDFDYEHNCLYWSDALDVIQRLCLNGSTGQEVIIINSGL
ALAFEPQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLPQEGVMFWDWGDLPKGIYRSNMDGS
AAYHLVSEDVKWPNGISVDDQWIYWTDAYLECIERTITSGQQRSVILDNLPHYAIYAVFKNEIYWDWSQLSIFR
ASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSLCLPKANNRSRSCPCEDVSSSVLPSPGDL
PQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDNDCGDMSDERNCPTTICDLDTQFRQESGTCIPL
YKCDLEDDCGDNSDESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDNDCRDWSDEANCTAIYHTCEASN
CIPQRWACDGDTCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLCTHFMDFVCK
RQQLCFHSMVCDGIIQCRDGSDEDAAFAGCSQDPEFHKVCDEFQFCQNGVCISLIWKCDGMDDCGDYSDEAN
NTEAPNCSRYFQFRCENGHCIPNRWKCDRENDGDSDEKDCGDSHILPFSTPGPSTCLPNYYRCSSGTCVMDT
WVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRCDGHQDCQDGRDEANCP
TLTMSREFQCEDEGEACIVLSERCDGFLDCSDESDEKACSDELTVYKVQNLQWTADFGSDVTLTWMPKMP
CVYNVYRVVGESIWKTLETHSNKNTNVLKVLKPDITYQVKVQVQCLSKAHNTNDFVTLRTPEGLPDAPRNL
LQSLPREAEGVIVGHWAPPITHGLIREYIVEYSRSGSKMWASQRAASNFTIKNLLVNTLYTVRVAAVTSRGIG
NWSDSKSITTIGKVIPPPDIHIDSYGENYLSFTLTMSEDIKVNQYVYNLFWAFDTHKQERRTLNFRGSILSHK
VGNLTAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYAT
SFLDLYRNPKSLTTLHNKTVIVSKDEQYLFLVRVVVPYQGPSSDYVVVKMIPDSRLPRLHVVHTGKTSV
VIKWESPYPDSQDLYAIYAVKDLIRKTDERSYKVKSRNSTVEYTLNKLKLEPGGKYHIIVQLGNMSKDSS
IKITTVSLSAPDALKIITENDHVLLFWKSLALKEKHFNESRGYEIHMFD SAMNITAYLGNTTDNFFKI
SNLKMGHNYTFTVQARCLFGNQICGEPAILLYDELGSGADASATQAARSTDVAVVVPILFLILLSL
GVGFAILYTKHRRQLQSSFTAFANSHYSSRLGSAIFSSGDDLGEDDEDAPMITGFSDDVPMVIA

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FIGURE 1729

CGAGTGACCTCGCGATCTGGCCCGGCTCCCGCTCGTCGCAACAGCGTGACTACAGGGTATGGCGGGGTCCGGGCA
CTGTGCGGCTGGACCCCCAGTTCTGGGGCCACGCCGCGGAACCGCTTACTGCTGCAGCTTTTGGGGTCGCCCCGGC
CGCCGCTATTACAGTCTTCCCCCGCATCAGAAGGTTCCATTGCCTTCTCTTTCCCCACAATGCAGGCAGGCACC
ATAGCCCGTTGGAAAAAAAAGAGGGGGACAAAATCAATGAAGGTGACCTAATTGCAGAGGTTGAAACTGATAAA
GCCACTGTTGGATTTGAGAGCCTGGAGGAGTGTTATATGGCAAAGATACTTGTGCTGAAGGTACCAGGGATGTT
CCCATCGGAGCGATCATCTGTATCACAGTTGGCAAGCCTGAGGATATTGAGGCCTTTAAAAATTATACACTGGAT
TCCTCAGCAGCACCTACCCACAAGCGGCCCCAGCACCAACCCCTGCTGCCACTGCTTCGCCACCTACACCTTCT
GCTCAGGCTCCTGGTAGCTCATATCCCCCTCACATGCAGGTACTTCTTCTGCCCCTCTCTCCCACCATGACCATG
GGCACAGTTCAGAGATGGGAAAAAAAAGTGGGTGAGAAGCTAAGTGAAGGAGACTTACTGGCAGAGATAGAACT
GACAAAGCCACTATAGGTTTTGAAGTACAGGAAGAAGGTTATCTGGCAAAAATCCTGGTCCCTGAAGGCACAAGA
GATGTCCCTCTAGGAACCCCACTCTGTATCATTGTAGAAAAAGAGGCAGATATATCAGCATTGTGCTGACTATAGG
CCAACCGAAGTAACAGATTTAAAACCACAAGTGCCACCACCTACCCCAACCCCGGTGGCCGCTGTTCTCCAACCT
CCCCAGCCTTTAGCTCCTACACCTTCAGCACCTTGCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGT
AGCCCTCTTGCAAAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGT
AGAATCACCAAGAAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCC
ACAGGTCTTGGAATGGCACCAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTTCGTCGGGTTATT
GCACAGCGATTAATGCAATCAAAGCAAACCATACTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTT
TTGTTGGTACGGAAGAAGTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAA
GCTTCAGCTTTGGCATGTTTAAAAGTTCCCGAAGCAAATTTCTTCTGGATGGACACAGTTATAAGACAAAATCAT
GTTGTTGATGTCAGTGTTGCGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAAATGCACATATAAAA
GGAGTGGAACCATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACATGAA
TTCCAGGGTGGCACTTTTACGATCTCCAATTTAGGAATGTTTGGGAATTAAGAATTTCTCTGCTATTATTAACCCA
CCTCAAGCATGTATTTTGGCAATTGGTGCTTCAGAGGATAAACTGGTCCCTGCAGATAATGAAAAGGGTTTGAT
GTGGCTAGCATGATGTCTGTTTACACTCAGTTGTGATCACCGGGTGGTGGATGGAGCAGTTGGAGCCAGTGGCTT
GCTGAGTTTAGAAAGTACCTTGAAAAACCTATCACTATGTTGTTGTAACCTCAAGAATTTCTAAACTCTCCC
AGGTCACACTGATTCACTTTAACAAGATATTTATATGTTATTAAACAGGTGGTTGCTTTTTATTTTAACCAGTT
ATTTTTATTATTGAGTCTGCTCAGATAAGTTATTTATAATGGGCATTACTGAATTTTTAAATGCCGATTACACC
CAAATATTGTGCACATTTAATAATCAGACACCAGATTTTAGCTCTGTACTCCTAATTAAGGGACATGTATGTGG
CCTTGCCTAGCCCTTTGGTGATAAGTACTTCTCTAGGAAATGTACGATAGGTAGAATTGTGGTTCCCTAAAGAC
AAGTACATAAAGGTGACCCTGATGAAACCTTGAAGTTCTGAAATTTAACTGCCTAAAATGTTCTCCTTAGATGTG
AGAGAAAGAGAAATCAGAAAAATTAATTCTCTTGGGGGAAGGGCTTGAATTGAAGCTTTACTTTAGAATTTAGCC
CTGGTTTGAAATTTCCATTACATGATCTTGGTTTATCATCGATGGGAAGGGTAGAAAACCTCAAGGAAAATAAG
TGAAATTTTAAAAGTCAGCATTTTCTTAGACCTCTTCAGCTGATTGTTTATTTTCTATGAATCTGTACTCAA
ATTACACATTTGTTTAAATAAATATCCACACAAATCTCAGTTACATCAAGTAGCTGGTTTATATTTAGATTATC
TCAAGTAGGGGGGAATAACCATGTGTAGGAATT

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FIGURE 1730A

GAGGAAAAACAGTACAGATGGGCCAAGAGCTTCAAGGAGAAGTAGTTATAATAATTACAGATCAGTACGGAAATC
AGATTCAAGCATTTTCACCAAGTTCTTTATCTTCTTTGTCAATTGCTGGGGTTGGACTTGATAGCTCAAATTTGA
AAACAACCTTTTCAGGAAAACACACAGAGTATAAGTGTAAGAGGCATCAAATTTATTCCAGGTCTCTCTGGAAATA
AGGATCTTTGTTTTACTTGGCGTGAGTTTTCTGACTTTATTTCGAGTGCAACTAATTTCTGGACCTCTCTGCTAAAC
TTCTCCTTATAGACTGGCCAGAATAAAGGAGTCCATTCCAGTGATTAATGGAAGAGATTTACAGAACCCTATTA
TTGTTCAACTTTGTGATCAGTGGGATAATCCAGCACCGGTACAACATGTTAAAATAAGTCTTACAAAAGCTAGCA
ATTTAAAGCTCATGCCTTCAAACCAACAGCATAAAACAGATGAGAAAGGCAGGGCTAATTTGGGAGTATTCAGTG
TTTTTGCCCTAGGGGAGAGCATACTCTTCAGGTTAAAGCCATCTATAACAAAAGTATCATAGAAGGACCTATAA
TTAAGTTAATGATTCTTCCAGACCCAGAAAAACCCGTTCTGCTCAATGTTAAATATGACAAAGATGCATCCTTCT
TAGCAGGGGGTCTTTTCACTGATTTTATGATTAGTGTTATTTCTGAAGATGACAGTATCATTAAAAACATTAATC
CAGCACGTATTTCCATGAAAATGTGGAAGCTGTCTACCAGTGGGAACCGACCCCCAGCAAATGCAGAAACATTTA
GTTGTAATAAAAATAAAGATAATGACAAAGAAGATGGCTGCTTCTATTTTCAGGGATAAAGTAATTCCTAATAAAG
TGGGGACATATTGTATCCAGTTTGGTTTTATGATGGATAAAACAAATATTCTCAACAGTGAACAGGTTATAGTTG
AAGTCTGCCTAATCAACCTGTGAAGTTAGTACCTAAAATTAACCACCTACACCAGCTGTTTCAAATGTTTCGCT
CAGTTGCCAGTAGGACCTTGGTCAGAGATCTACATCTTAGTATCACGGATGACTACGACAACCATACTGGAATTG
ATTTGGTTGGCACTATAATAGCCACCATTAAAGGCTCTAATGAGGAAGATACTGATACCCCACTTTTTATTGGGA
AAGTTAGAACACTTGAATTCCTTTCGTAATGGTTTCGGCTGAAATCATGAGTCTGGTGCTGGCAGAAAGTAGTC
CTGGAAGGGATAGTACTGAATATTTTATTGTATTTGAGCCCCGGCTACCACTTTTATCAAGAACCTTAGAACCAT
ATATCTACCGTTTCATGTTTTACAATGATGTTAAGAAGCAGCAACAAATGGCAGCACTTACAAAAGAAAAGGACC
AATTATCTCAGTCTATTGTTATGTATAAAAGTTTATTTGAAGCCAGCCAACAGCTTCTTAATGAAATGAAATGTC
AAGTTGAAGAAGCAAGATTAAGAGAGGCCCAATTGCGAAATGAACTAAAAATACATAATATTGACATTCTACAA
CACAACAGGTGCCACACATTGAAGCACTTCTGAAAAGAAAAGCTATCAGAACAAGAAGAACTGAAGAAAAAACCTA
GAAGATCGTGTACTCTTCCAACTATACTAAAGGCAGTGGAGATGTTTTGGGAAAGATTGCACATCTAGCACAAA
TTGAAGATGATAGAGCTGCGATGTTTATTTCTTGGCATCTGGCAAGTGACATGGACTGTGTAGTCACCCCTAACCA
CTGACGCTGCACGTCGTATCTATGATGAAACCCAAGGTCGTCAGCAGGTGTTGCCCTTGATTCTATTTACAAGA
AGACTCTTCCAGATTGGAAGAGATCTCTACCTCATTTCGGAATGGAAGATTGTATTTTAAACCCATTGGAGATC
CAGTCTTTGCTCGAGACTTGTTAACATTTCCAGATAATGTAGAACATTGTGAAACAGTATTTGGTATGCTGTTAG
GAGACACCATTAATTTGGATAATCTGGATGCGGCCAATCATTATAGAAAAGAGGTTGTTAAAATTACACACTGTC
CTACACTGCTGACCAGAGATGGAGATCGAATTCGAAGTAATGGAAAGTTTGGGGGCCTTCAGAATAAAGCTCCTC
CAATGGATAAACTTCGGGGAATGGTATTTGGAGCTCCAGTTCAAAACAGTGTCTGATCTTAGGGGAACAAATAG
ATCTTCTTCAGCAGTATCGTTCTGCTGTGTGCAAACTAGACAGTGTGAATAAGGATCTTAACAGTCAATTAGAGT
ACCTTCGCACTCCGGATATGAGGAAGAAAAAGCAAGAACTTGATGAACATGAGAAAAATCTCAAACCTAATAGAGG
AAAAACTAGGTATGACTCCCATACGTAAGTGTAATGACTCATTGCGTCATTACCAAAGGTTGAGACGACAGATT
GTCCAGTTCCTCCTAAAAGAATGAGACGAGAAGCTACAAGACAAAATAGGATTATAACCAAACAGATGTATGAAG
AGGTGACAGAGAGAAGAGGCCATTGGTCTCAGTAAGAATGCCCTGCTTCTGCATCTCTGTTTCAGAAGACCAAG
AGGGTGACTTACCAGACTGAGTATTTCTGGGGACAATACAAGTACCTGGGCATGAATTTCCATTTTCGATTTCAGAT
GGGACTGGAAACAACCATTCAATTTTATGAATCTTACTGGACATTATGGATTTACTGGAATTATTCCAGACATTA
TGCCCTTTGGTTGTCACTACCTTGCAAATGTGTAAGAGGAAAAATGTGCTAATGTGGCAGTGACTGTAAAACTGGC
ACATGGCATTTATTAATCCTGAAGAAAAGTACATGTACTATTTTTCAGTATAAATATAATGAACATGTGAGAACT
ATTTCTTGAAAACCTTTTTATTACTTTTTCGCTGAATTTATTTAACAAAGATGTTTTGTCTTTTGTGTAAGGGAGG
TTCTAGAGGCTAGATGTTTAAATTGTAAATATGTGAGGAACTCAATGCAGAATTCAGGATAAAAAATTTTAAAGC
ACAGGTATTTGGGAATTGAAATGTTAAGATACCCAGAAACAACATTAAATCAATGAGTGAACCTTGTGACAGTGGA
GCATTTCAAATTTCAAAGACTTATCCTGTGTGTGTGTGTGTGTGTATATATATATATATATATAAATATATATA
TATAAATATTCAGCAGCACCAAGTTTTATAACTATTGTTTGTGTTGACTTTATTAATACTAGAATATGTAGTCTC
AGCCTTAATTTTACATTTACATTATTTTGTAAATTTTTTATTACTATTTTAAAGGGGTTAAAGAGAACATACATTC
TCACATTAGTGTACTTTCTGGTAGAAAGTTGCTGCAAAAACATTTGAAATGTATATTAACCTAATGTATGTCATA
TATATGTCTTTGTGTAAGTTCAAGACTATTGATCTGTGAAGTTATTTTGTAAAGGACATACATTTGGTAAGTAAGT
TTGTGTCCAGGAAATGTATGTGTTTTTAAACCCTTTCTAAATATGCAGGCCATTAATAAATAAGATTGTTTCTT